

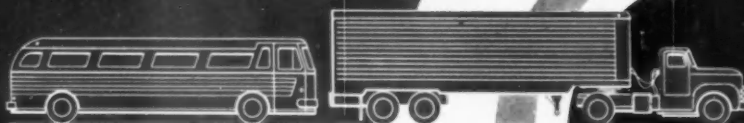
NOVEMBER 1956

COMMERCIAL CAR JOURNAL

A CHILTON PUBLICATION

THE MAGAZINE FOR TRUCK
AND BUS FLEET OPERATORS

1956 ANNUAL



BUYERS' DIRECTORY

"LET THE **BAY-LIFT**[®] IMPROVE YOUR **POSITION-FOR-PROFIT**

by getting 3 to 5 **EXTRA** cars and trucks a day
out of your maintenance shop...back on the road"



Every BAY Portable Air Lift you put to work in your shop is exactly the same as adding an **EXTRA** skilled mechanic.

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A BAY costs less than what you pay a good mechanic for a month's work. But, except for its surprisingly low first-cost, from then on out through many years of unequalled equipment service, it's all profit with no thought of pay . . . with BAY. Write for full details. Bay Mfg. Division, Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.

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BAY LIFT[®]

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BAY-LIFT
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Truck Model T-5000



BAY ROCKER-HEAD STANDS
Model B



BAY BUMPER JACK
Air-Operated—Model H-3000
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You pay for Olson Bodies ...whether you buy them or not!



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The dollars and cents economies of Olson Aluminum Bodies by Grumman are unbelievable — our users will tell you that and our repeat orders prove it. Our new models are even more economical — increased headroom, more loadspace, greater visibility, higher rear doors — yet they weigh less than steel bodies, dent less, corrode less, last longer, resell for more and thus "Pay for Themselves thru Savings." They are Priceless advertisements in areas where advertising is beyond value.

Ask your truck dealer — Chevrolet, Ford, Dodge, GMC... or write us at once

J. B. E. OLSON CORPORATION, 1740 Broadway, New York 19, N. Y.

COMMERCIAL CAR JOURNAL, November, 1956

We invite you to ask
for information and a copy of
"Today's Economics of Route Deliveries"
...sent without obligation.

COMMERCIAL CAR

—NOVEMBER 1956 • Volume 92 • No. 3—

1956 Annual Buyers' Directory . . .

Continuous, year around revision makes it possible to bring you this COMPLETE-IN-ONE-ISSUE directory of sources for the hundreds of items you need in your fleet operation. New feature this year is a Directory of Products Advertised, arranged by name of product. It begins on page 69, has page number references where you can generally find detailed information—frequently illustrations—of the products you are interested in.



Who's Got What You Want? 69

For your convenience, an index of products advertised in this issue to help you quickly check on products you are interested in

Fleet Operators Buyers' Product Directory 77

From abrasives to wrist pins, a complete list of sources for trucks, trailers, busses, component parts, shop and vehicle equipment, parts, shops supplies and other items needed for efficient fleet operation

Fleetman's Association Directory 109

It includes national groups concerned with fleet operation, state truck and bus associations, SAE local sections, local fleet groups

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JOURNAL

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COMMERCIAL CAR JOURNAL, November, 1956

Portrait
of a
truck
making
a left
turn



(one mile away)

When the car behind
can't see anything
else, he'll spot
a gleaming Yankee
turn signal lamp.

for safety's sake...
make it



Yankee offers you 36 different sets of Class A Type I
Truck Turn Signals...the world's most complete line.
Send for complete catalog of fleet safety accessories.
YANKEE METAL PRODUCTS CORP., Norwalk, Conn.



Low cost
Thin-A lamps



Heavy duty
reflector
type lamps



Low maintenance
sealed beam
lamps



**"Poor Joe went with another fleet —
then discovered they didn't have full-depth Airfoam drivers' seats!"**

Airfoam—T.M. The Goodyear Tire & Rubber Company, Akron, Ohio

How full-depth AIRFOAM seats ►
increase driver-efficiency, cut costs:

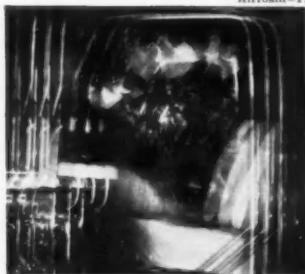
You can specify Full-Depth
AIRFOAM seats and backs as
original equipment on any truck!
But be sure it's



Airfoam
MADE ONLY BY

GOODYEAR

The World's Finest, Most Modern Cushioning



MULTIPLE-EXPOSURE PHOTO showing how ordinary cushions amplify drags and jars, cause driver to bounce up as controls come down. Trying to compensate, driver cramps muscles, frazzles nerves, drains efficiency. Cushions wear out, too!



SAME CAB. AIRFOAM (with over half-a-million fresh air cushions per cubic inch) muffles and absorbs drags and jars, keeps driver's motion in step with controls. Result: Fresher, happier, more efficient drivers—plus undamaged cushions!

Goodyear, Automotive Products Dept., Akron 16, Ohio

THE OVERLOAD

E D I T O R I A L C O M M E N T

Nebraska—New Key to Ton-Mile Tactics

WHATEVER THE POLITICAL outcome of the election, it will pay to keep an eye on Nebraska. There for the first time in any state, the ton-mile tax is on the ballot for public referendum.

Obviously this is being written on a date too early to report results. Yet we could not delay a whole month before alerting readers to this important development. This is especially true in view of the great number of state legislatures that will convene early next year.

If the Nebraska tax is defeated, it will give strong impetus to similar action in other states. It could well be the starting signal for *repeal* action in states that already have the ton-mile or similar weight-distance taxes.

If on the other hand the tax gains voters' approval, you can look for a lot more ton-mile tax strategy in other states early next year.

It is the complexity of the ton-mile tax that makes it tough. To the average man on the street it seems like a wonderful get-rich-quick idea. He considers only one side of the problem. The battle cry—Soak the Big Trucks—is an easy one for him to accept.

More often than not Mr. Average forgets to ask how much he will pay in increased cost of

transportation, or how much higher prices will be on everything he buys. And it's a cinch that ton-mile tax proponents won't tell him!

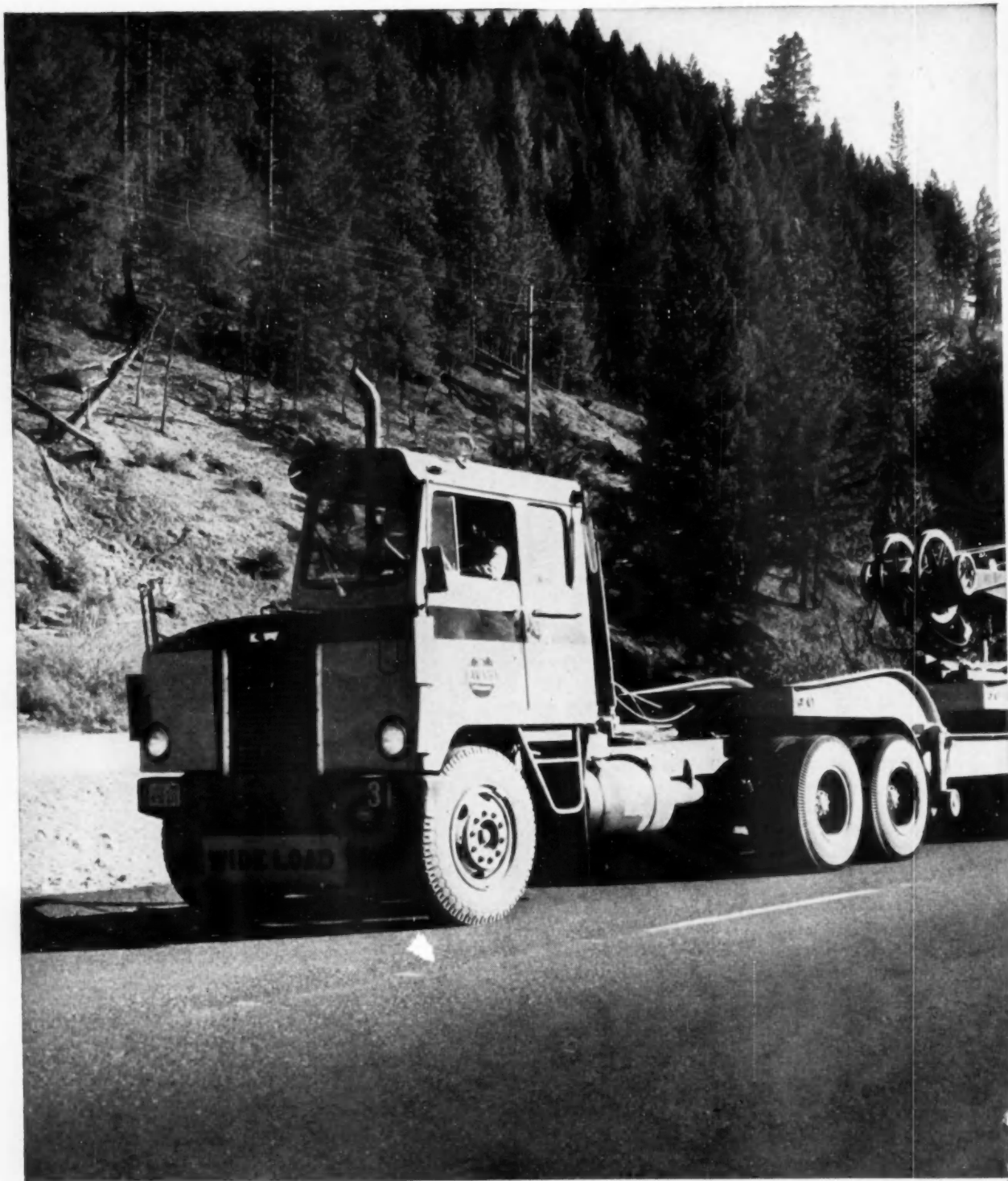
That's why the Nebraska situation is so important. It's a lot easier to explain the *full meaning* of a complex problem to a handful of legislators than to millions of voters. Legislators are elected representatives of the people. It is also their duty to study carefully all aspects of any issue on which they vote.

In Nebraska these representatives have done their job well. Six times they have turned down the ton-mile tax. Five times in committee, once on the floor. They had the facts, well presented by a host of farm and business organizations. They considered them carefully, turned in a resounding "no" on all six occasions.

But now, by the simple expediency of collecting enough signatures, the strategists have literally gone over the heads of the legislature, carried the issue to public referendum. You can be sure that their well-organized campaign has been very simple and very direct.

By the time you read this you will have the verdict. But whatever the outcome, there will be a good lesson for other states written in the smoke of the Nebraska battle.

Bart Rawson
Editor



TEXACO

A big job, well done with Marfak

HAWKEY TRANSPORTATION CO., Redding, California, hauls finished lumber and handles general trucking jobs throughout the state. In a diversified operation like this, trucks must be able to meet every emergency — which often means carrying the heaviest loads under the most severe service conditions.

That's why Hawkey chose *Texaco Marfak* as the chassis lubricant for their 100-truck fleet seven years ago, and why they've stayed with *Marfak* ever since. Hawkey has found that, no matter how rough the going, *Marfak* stays in the bearings. As a result, they get longer lasting protection against wear and rust, parts life is increased, maintenance costs are reduced.

In wheel bearings, Hawkey uses *Texaco Marfak Heavy Duty* — gets protection against dirt and moisture for thousands of extra miles, with no seasonal change required.

Other Texaco products to improve truck lubrication are: *Texaco Marfak Heavy Duty Special 2*, the multi-purpose lithium-base lubricant for grease-lubricated parts — *Texaco D 303 Motor Oil HD* for clean, full-power performance in heavy duty gasoline and diesel engines — *Texaco Universal Gear Lubricant EP* for longer gear life in transmissions and differentials.

To learn how Texaco can step up efficiency and cut costs for you, consult a Texaco Lubrication Engineer. Just call the nearest of the more than 2,000 Texaco Distributing Plants in the 48 States, or write The Texas Company, 135 East 42nd Street, New York 17, N. Y.



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FOR THE TRUCKING INDUSTRY

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Engineering and Performance



Sealed Power Piston Rings
are approved for

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★ —but ALL car and truck
★ engines and automatic
★ transmissions made by
★ ALL automobile
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you'd like to know!*

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Water Pumps





AT YOUR SERVICE

TIMELY NOTES ON MAINTENANCE AND OPERATION

Lube Oil Inspection

ACCORDING TO recent comment by H. L. Hemmingway and J. C. Hedberg of The Pure Oil Co., you can't tell the condition of today's oil by visual inspection. Here are some of the problems encountered in visual inspection they have encountered.

"When oil is oxidized, in the absence of the various contaminants usually present in engines, it turns brown, mahogany or, in transmitted light, wine colored. The better oils which do not form sludge during normal oxidation remain quite clear, while those oils which do form sludge as they oxidize have a muddy brown appearance. Black, muddy or smoky discoloration found in some used oils from gasoline engines and in most diesel engines is usually caused by fuel soot. The oil has been contaminated but may not have oxidized or otherwise deteriorated. In the case of samples from gasoline engines, it may be accompanied by a strong, unpleasant odor from the presence of partially burned fuel. The condition usually indicates incomplete fuel combustion due to faulty ignition, excessively rich mixtures, poor mechanical condition or low operating temperatures.

"Detergent oils, particularly those of lighter color, discolor rapidly when contaminated with soot because they tend to suspend the soot rather than let it settle out in the engine. When detergent oils are being used and soot contamination is occurring, the darkening of the oil demonstrates the oils' ability to suspend the contaminants. The extent of contamination, which can only be determined by laboratory analysis, is the only reliable way to tell whether harmful contamination is occurring and whether oil drain or corrective maintenance is necessary.

"Slate gray discoloration of some oils is due to the presence of lead compounds from leaded gasoline. It probably is similar in nature to the white to gray deposits found in the combustion chambers of engines using leaded fuel. Laboratory studies indicate these materials are relatively harmless. Red, amber, purple or blue tints in used oils generally result from a concentration of the gasoline dye. Here again, this discoloration shows up only with good oils which resist

darkening due to oxidation when used in engines which do not form masking contaminants. No harmful effects can be expected from this fuel dye contamination.

"Milky tan or mustard color discoloration is usually due to the presence of excessive moisture. It may be made more noticeable by the presence of lead compounds. Water can be detected by heating a small quantity of the oil in a spoon. Excessive sputtering and foaming indicates moisture. If this test indicates that water is present, coolant leakage is indicated and a subsequent test for glycol should be run on oils taken from units using glycol-base antifreeze. When glycol is exposed to the high temperatures of pistons, valve stems and other hot engine parts, it tends to oxidize very rapidly, cause varnish-like deposits and often results in a dark, almost black, used oil color which also may mask the milky tan or mustard color characteristics of moisture alone.

"In addition to the conditions discussed, other harmful contaminants are undetected by the eye. These are: excessive fuel dilution, grit, sand, road dirt and metal particles. The only way "to be sure" just what the unfavorable conditions are and the extent of harmful contamination is to run a laboratory analysis."

Tar Removers

TAR REMOVING solutions using aromatic solvents will damage the finish on vehicles painted with acrylic-type lacquers. Truck operators with acrylic lacquer finishes on their vehicles can get around the problem by using tar removers made with aliphatic solvents—such as kerosene. They make the job somewhat harder but won't damage the acrylic finish. For example, Permatex—in what it terms an "interim solution"—recommends diluting its "Taroff" with kerosene in equal proportions for use on vehicles with acrylic finish that have been on the road at least six months. On vehicles with less than six months' service, recommended solution is two parts kerosene, one part "Taroff."

(TURN TO PAGE 12, PLEASE)



You'll get with genuine

You'll like the long-wearing qualities of Wagner Brake Lining . . . It wears slowly and evenly — and brakes require fewer adjustments even though exposed to heavy-duty service under severest driving conditions.

As a pioneer manufacturer of hydraulic brakes, air brakes, and all essential brake service parts — **WAGNER KNOWS BRAKES** and the qualities required in a safe brake lining.

Wagner Brake Lining contains no harmful abrasive material to damage drums. It doesn't compress, absorb moisture, or deteriorate with age. It has uniform frictional qualities that last the life of the lining despite high operating temperatures.

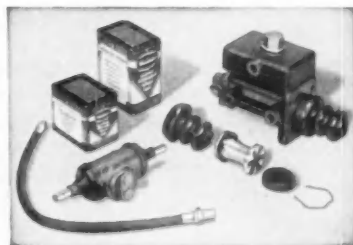
You can get all your brake service requirements from one source . . .



WAGNER BRAKE LINING. Available in sets, rolls, blocks, slabs, segments, and shoe exchange sets.



WAGNER LOCKHEED BRAKE FLUID. Chemically balanced . . . it surpasses S.A.E. specifications.



WAGNER LOCKHEED HYDRAULIC BRAKE PARTS. Cover every make and model of vehicle.

You can depend upon Wagner Quality because Wagner Products are used as original equipment by manufacturers of cars, trucks, buses, and trailers.

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*...the best known
name in brake service*

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more miles per reline job

Wagner[®] BRAKE LINING

SAFE BRAKES save lives... Piloting heavy trucks over all kinds of roads in today's traffic is tough enough without having to "baby" the brakes—or risk possible accidents due to worn-out brake shoes or lining.

Reline with safety-proven Wagner Brake Lining. It is engineered to meet the rigid demands of modern over-the-road driving. It is unsurpassed for quick, safe, smooth stops.

Drivers report that this performance-proven, top-quality lining, properly installed, gives the man at the wheel better control over the vehicle. It lessens fatigue, and offers an extra margin of safety for all emergency stops.

Available in blocks, sets, rolls, slabs, cut segments, and on shoes — either "bonded-on" or "riveted-on". There are more than 100 width and thickness combinations... over 400 individual sets... and over 350 block sizes. Coverage is complete for all vehicles.



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Now you see it

... Now you don't!

A ten-minute bath removes all grease!

Brand new Oakite Saturol removes every trace of grease, varnish, gasket compound and other soils from fuel pumps, carburetors and other automotive parts. This skillful blend of solvents has a high flash point, is safe on metals, comes ready to use with a vapor seal floating on the solvent to inhibit evaporation... so a drum of Oakite Saturol lasts and lasts, giving real economy.

It's easy to use Oakite Saturol. Simply immerse parts to be cleaned in the solvent, below the vapor seal. Leave in immersion-tank for ten minutes to half an hour, depending on condition, then lift out and rinse with kerosene or water. That's all. Oakite Saturol also comes in a special 6-gallon pail, complete with immersion basket.

Call your local Oakite Technical Service Representative for a demonstration, or write to Oakite Products, Inc., 52G Rector Street, New York 6, N. Y.



Export Division Cable Address: Oakite

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CCJ AT YOUR SERVICE

Continued from Page 9

Bus Interior Cleaning

ONE OF the most interesting discussions to come out of the maintenance sessions of the recent American Transit Assn. convention concerned bus interior cleaning. Technique is to use a steam cleaner inside the bus in conjunction with a Buck cyclone cleaner. Several city bus operators reported very successful use of this combination.

General idea is to disconnect one fan of the cyclone cleaner, thus reducing suction at the front door. The suction left is just enough to quickly remove the steam as the operator works inside using steam plus a mild detergent on ceilings, walls, floors and even plastic upholstery. One problem is that advertising cards have to be removed. Even so, reports are that cleaning time is reduced to about half the accepted standards.

Water Pump Cover Torque

CHEVROLET now recommends 6-9 ft lb of torque when tightening the water pump cover bolts on the 322 cu in. "Loadmaster" truck engine. Previous torque value was 12-15 ft lb.

Fuel Facts and Fallacies

WITH THE advent of higher horsepower and higher compression engines, increased use of 4-barrel and dual carburetors and higher octane ratings for gasoline, fleet operators might be interested in some recent fuel facts and fallacies as reported in a recent issue of Ethyl Corp.'s "Technical Notes." First fallacy is that higher octane gasolines raise operating temperature of the engine, cause it to "burn up." Ethyl's answer is that modern gasolines of both premium and regular grades have practically identical heating values, the energy content being quite close to 115,000 Btu per gal. Moreover, there is no predictable correlation between heating value and octane number. Therefore, if the design or operating variables of an engine—such as compression ratio, spark advance, and fuel-air ratio—are held constant, switching to a gasoline of higher octane number will not produce any change in operating temperature unless the engine has been knocking, in which case the temperature will actually be reduced.

Another fallacy noted is that use of a higher octane gasoline in a non-knocking engine will automatically result in greater power output.

(TURN TO PAGE 16, PLEASE)



SUPER MILEAGE AT REGULAR PRICE

And you get extra recaps, too, with the Lee Super DeLuxe Highway Tire

Here's what every truck-tire user wants—*extra* original mileage, *extra* recaps, *regular* price.

The Lee Super DeLuxe Highway has a wide, flat-contour tread compounded of best-grade Smoked Sheet natural rubber for maximum mileage. The tread design provides excellent traction and is engineered to prevent small cuts from growing into long tread cracks.

Its carcass has Lee's special Lubri-Cushions—thin sheets of rubber between every ply. These lubricate the plies, reduce internal friction, and protect against bruise breaks by equalizing flexing strain over the entire road impact area.

Extra-strong, extra-tough Super-Tensile Cord assures greater protection against impact damage and blowouts. The cords are all treated by the exclusive Lee Flexlok Process, which minimizes tire growth and makes cord separation from the rubber bond practically impossible.

The Lee Super DeLuxe Highway is available in Super-Tensile rayon or nylon cord. It's an outstanding truck tire buy.

The complete Lee line, shown below, includes a tire which will lower *your* operating costs by giving longer life, more recaps. Let us prove it to you.



Here Now! NEW CHEVROLET FIRST with the MOST



They're out to save you hours and dollars on any hauling job . . . and they've got big new power plus the modern features that make it a sure thing! They put you way ahead with time- and work-saving advantages you won't find in any other truck today!

Year after year—first with the most modern features! And again, for 1957, Chevrolet brings you the industry's most advanced truck features—new developments that have already been proved in a history-making preannouncement test run! (See below.)

For '57 there's bold new styling—rugged good looks to match Chevy's remarkable stamina and dependability. There's new

Alcan Highway Test Run Proves Chevrolet Ruggedness!

In an AAA-certified endurance run, 6 new Task-Force trucks roared up the 1,520-mile Alcan Highway (normally a 72-hour run) in less than 45 hours! In dramatic fashion, new Chevy trucks conquered one of the world's most challenging roads and proved their greatness!



A



TASK-FORCE 57 TRUCKS!

modern features



fleet-action power in Chevy's outstanding new engine line-up—with the 195-h.p. Loadmaster V8 standard in all 9000 and 10000 series trucks; and the sensational new 283-cu.-in. Taskmaster V8 (160 h.p.) standard in 5000, 7000 and 8000 series models. All told: *five* high-efficiency V8's and *three* economy-leader 6's in the truck line alone!

Many models are equipped with bigger,

brawnier rear axles. And there's a load of heavy-duty options for '57 — including Chevy's revolutionary 6-speed Powermatic transmission, designed especially for heavy-load, high-mileage hauling.

Your Chevy dealer has all the details. When you see him, be sure to check the new cab features, too. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

The "Big Wheel" in trucks!



B



C



A. Cameo Carrier covered entire distance without stopping engine; averaged 18.17 miles per gallon!

B. New Super Taskmaster 283 V8 stole the power show, flattening an obstacle course of mud, gravel and grades!

C. 1,520 miles without shifting gears! Powermatic equipped heavyweight went all the way in a single forward-speed range!

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**the most economical
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low, low initial cost . . .
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uses half as much fuel.

Outperforms big, costly
machines where a
handy steam cleaner is
needed. Pressure
impact of hot cleaning
solution penetrates
smallest cracks and
crevices. Permanent
mount or
(optional at
small additional
cost) portable
on rubber
tire wheels.

*cleans, sterilizes, disinfects, heats,
sprays . . . practically anything!*

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Name _____ Position _____
Company _____
Address _____
City _____ State _____

CCJ AT YOUR SERVICE

Continued from Page 12

Not so, says Ethyl. If an engine is designed and/or adjusted to operate without knock or detonation on a fuel of given octane number, use of a gasoline of higher antiknock quality will not result in more power unless the engine is readjusted to effectively utilize the additional quality.

One "fact" noted by Ethyl may surprise you. Some 70 per cent of the potential energy of gasoline is not used to make the wheels go around.

Gasoline has about six times as much energy as an equivalent volume of dynamite. In order to utilize this energy, however, the automotive engine must first convert the chemical energy of the fuel into heat energy within the combustion chamber, and then into mechanical energy. In performing these complex conversions, the engine must discard a large portion of the energy in the gasoline. If a modern high-compression engine is operated at its most efficient condition of full throttle, about 30 per cent of this energy is converted into useful work. About 45 per cent of the total energy escapes in the still-hot burned gases when they are exhausted from the combustion chambers to make room for a fresh fuel-air charge, and through radiation from hot engine parts. Another 20 per cent is dissipated to the cooling water which must be used to keep the metal surfaces of the combustion chambers, cylinders, and pistons at safe temperature levels. Friction losses in rotating and reciprocating parts account for the remaining 5 per cent of the gasoline energy. The percentage of gasoline energy converted into useful work—the thermal efficiency of the engine—drops off during part-throttle operation because a greater proportion of the available energy is lost through friction and heat losses. For normal city driving, only about 10 per cent of the total energy in the gasoline consumed is actually utilized.

Steering Troubleshooting

FAULTY STEERING geometry produces steering troubles and excessive tire wear, but it's not the only thing that does. For example:

Shimmy or wheel tramp might be caused by out-of-balance wheels, improper caster, improper toe-in, unevenly inflated tires, loose spring clips or "U" bolts, worn steering knuckles or tie rod pins, shifted or bent axle center.

Hard steering might be caused by tight ad-

(TURN TO PAGE 20, PLEASE)

EATON FEATURES

reduce hauling costs, keep trucks on the job



PLANETARY GEAR DESIGN —

distributes pressure and wear over four planetary gears, resulting in lower unit stress, reduced maintenance, longer axle life.

FORCED-FLOW LUBRICATING SYSTEM —

supplies positive lubrication to all moving axle parts, even at slowest vehicle speeds.

POSITIVE SHIFT CONTROL —

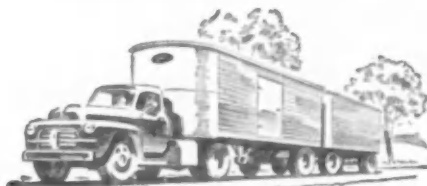
provides quick, easy shifts. Drivers use available gear ratios—the right ratio for road and load conditions.

SELF-CONTAINED AIR BRAKE —

provides for greater braking efficiency; quicker action, quicker release; quick, easy reline. Available on Eaton air brake models.

EXTRA-RUGGED CONSTRUCTION —

eliminates the possibility of harmful distortion or misalignment under full load, holds maintenance to a minimum.



More than Two Million
Eaton Axles in Trucks Today!

Ask your truck dealer
for complete information.

EATON

2-SPEED AXLES

EATON

AXLE DIVISION
MANUFACTURING COMPANY
CLEVELAND, OHIO



PRODUCTS: Sodium Cooled, Poppet, and Free Valves. Tappets. Hydraulic Valve Lifters. Valve Seat Inserts. Jet Engine Parts. Rotor Pumps. Motor Truck Axles. Permanent Mold Gray Iron Castings. Heater Defroster Units. Snap Rings. Springtites. Spring Washers. Cold Drawn Steel. Stampings. Leaf and Coil Springs. Dynamatic Drives, Brakes, Dynamometers

IT'S HERE!

THE BIG ADVANCE IN 2-WAY RADIO

Bendix

DYNA-COM

... and here are 15 ways it saves money for FLEET OWNERS

- Increases fleet production ★ Improves driver's morale ★ Speeds repairs, cuts down-time
- Cuts no-load miles ★ Helps avoid traffic tie-ups ★ Eliminates driver parking problems
- Gives dispatcher instant contact with entire fleet
- Speeds and improves service ★ Reduces maintenance costs ★ Solves platform tie-ups
- Helps trace shipments quickly ★ Eliminates unproductive mileage
- Speeds orders and driver-to-driver communication ★ Reduces dispatching-loading time
- Gives fleet owner a competitive "edge"—a powerful selling tool

FROM PICK-UP TO DELIVERY Bendix*Dyna-Com saves time and money in all phases of your operation. With a radio equipped fleet you can coordinate your service to speed pick-ups, transfers and deliveries. What's more, revenue-miles are increased, too.



NEW!



Dyna-Com Mobiles Cover all frequency ranges: 25-54 mc; 144-174 mc; 450-470 mc. Available in power outputs from 15 to 60 watts. Interchangeable between 6 and 12 volt vehicles without modification.

NEW!



Dyna-Com Consoles and Base Stations For 25-54 mc; 144-174 mc; 450-470 mc; delivering from 20 to 60 watts output. Operate from 117 volt AC power lines. Quality engineered for performance and appearance.

NEW!



Dyna-Com Portables Greater versatility and flexibility than any other portable equipment. Compact, lightweight, full 1-watt output. Extra-long battery life. Complete line of accessories including a transistorized, plug-in loud-speaker.

NEW!



Bendix Bantam For low-power, limited range application as a mobile unit or base station. Provides more than 1-watt power output. Operates from 6, 12, 24, 32 volts DC or 117 volts AC without modification or costly converters. Adds flexibility to any communications system.

COMPLETE NEW LINE OF PRECISION-BUILT FM MOBILE UNITS AND BASE STATIONS FOR ALL FREQUENCIES!

The result of over 5 years laboratory research and development, Bendix Dyna-Com is the first big advance in 2-way radio in over a decade. All new from chassis to cabinet, each model incorporates all the latest improvements which have made Bendix the foremost leader in railroad and aviation communications; in airborne navigation; in radar and in military electronics.

For example, Dyna-Com's unitized design sets a new standard for performance and dependability. It features plug-in, interchangeable chassis construction which speeds service and saves maintenance costs. Any chassis in the Dyna-Com line can be transferred, without adjustment or modification, between mobile units and base stations.

Find out how Bendix Dyna-Com can boost the efficiency of your organization. Let a Bendix Communications Engineer survey your communication needs without obligation. Call or mail the coupon today for full information on Dyna-Com—the first big advance in 2-way radio!

*Reg. U. S. Pat. Off.

Bendix Radio

DIVISION OF BENDIX AVIATION CORPORATION BALTIMORE 4, MD.

Bendix Radio
Mobile Sales, Dept. A
Baltimore 4, Md.

Gentlemen:

Please send me complete details about Bendix Dyna-Com 2-Way Radio.

☐ 25-54 mc.

☐ 450-470 mc.

☐ 144-174 mc.

☐ Bantam

☐ Portable

Name _____

Title _____

Firm _____

Street _____

City _____

State _____

Continued from Page 16

justment in the gear or linkage, shifted axle center, binding in gear or linkage, reverse camber, excessive caster, too much toe-in.

Emergency Wheel Balancing

HIGH SPEED wheel tramp is generally the result of wheels out of balance. When the condition prevails over a period of time, cupping or spotty tire wear results. Wheels out of balance only a few ounces have this force multiplied many times due to the high speed of rotation. It is recommended that wheels be balanced on a horizontal or vertical wheel balancer, but a satisfactory job can be accomplished using the following procedure:

1. Raise the axle on a jack so the wheel is free to rotate.
2. Remove wheel and wheel bearings, wipe them free of grease and reassemble with dry bearings.
3. Adjust for free rotation.
4. Spin wheel to determine light side.

5. Install wheel balance weights on rim bead to balance wheel so it will not stop in any one position repeatedly after spinning. (When adjustment is correct, wheel should remain at rest in any position in which it is stopped.)

6. Remove wheel, lubricate bearings, reassemble and adjust.

Oil Pump Replacement

THREE 5/16-18 bolts are used to mount the rotor-type oil pump in Ford's 302 and 332-cu in. engines—two 1 $\frac{3}{8}$ in. long and one 1 $\frac{1}{4}$ in.

The two longer 1 $\frac{3}{8}$ -in. bolts are used from the oil pump to the cylinder block. The shorter 1 $\frac{1}{4}$ -in. bolt is used from the cylinder block to the tapped hole in the oil pump housing. If one of the longer bolts is used here, it will bottom against the aluminum housing and may result in a cracked and leaking oil pump.

Misfiring Spark Plugs

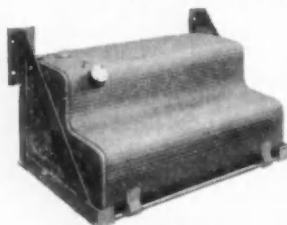
FORD REPORTS that occasional spark plug misfiring in its 302 and 332-cu in. engines can be caused by induction firing between high tension wires Nos. 1 and 2 and Nos. 6 and 8. Recommended correction is to change their positions. In the left hand harness nylon separator, reverse the Nos. 7 and 8 wires. In the two right hand harness rubber insulating blocks, reverse the Nos. 2 and 4 wires.

MOVE THE WEIGHT

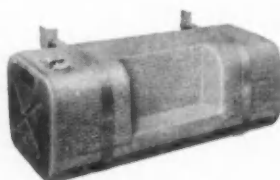
FORWARD

With any one of the three Snyder Safety Payload Tanks illustrated. All are designed and engineered to be mounted to the frame directly below the cab. This position transfers most of the weight of the tank and its contents forward

to the front axle, thus more payload. Payload Tanks are approved by Underwriters Laboratories, Inc. label or reexamining services and also meet the specification of the Bureau of Motor Carriers of the I.C.C.



FULL STEP TANK
Capacity 30 to 70 Gallons



CENTER STEP TANK
Capacity 38 to 70 Gallons



PAYLOAD TANK
CORNER STEP
Capacity 35 to 64 Gallons

SNYDER TANK CORPORATION

P.O. BOX 14, BUFFALO 5, N. Y. • P.O. BOX 3162, BIRMINGHAM 1, ALA.

SNYDER SAFETY TANKS



When metal rusts through like this, it becomes a real liability. Besides spoiling the appearance, it costs a lot to repair with conventional methods and materials.



While the damaged area is being heated after cleaning by sanding and solvent (background), the glass cloth patches are cut to size and the BAKELITE Epoxy Resin is mixed with its hardener.



Layers of glass cloth saturated with the resin mix are set in place and shaped roughly to conform to the section being repaired. Several layers can be built up to fit required contours.

Slash body repair costs 70%

...with reinforced plastic



Heating with infra-red lamps causes the resin-hardener mixture to set. This operation takes about fifteen minutes. Shrinkage is no problem with BAKELITE Epoxy Resins. Patch holds fast to metal base.

Final operation before painting involves usual procedure of sanding the glass cloth—BAKELITE Epoxy Resin laminated patch. Patch could also be machined or drilled. Paint is applied as with metal.



Patching this fender took just a little over an hour. The saving was 70 per cent of the cost of doing the job with conventional materials and methods. Figure your own savings in dollars and time when you patch rusted or dented sheet metal with this lamination of glass cloth and BAKELITE Brand Epoxy Resins.

BAKELITE Epoxy Resins are extremely durable when cured—hard, tough, resistant to moisture, corrosion, chemicals. They're easy to work with. The liquid resin is mixed with its liquid hardener and cures at room temperature or, if a faster cure is desired, infra-red lamps may be used.



BAKELITE COMPANY

A Division of Union Carbide and Carbon Corporation

UCC

30 East 42nd Street, New York 17, N. Y.

The term BAKELITE and the Trefoil Symbol are registered trade-marks of UCC

Report from Truck Operators Everywhere ...

"We get Top Value with



Compare specifications
and you'll go **WHITE!**

It's the Quality Truck that
Earns the Most Money ...
does the Most Work

White
9000

Look at the payloads...look at the mileages! Operators prove the *extra* profitability of these new Whites.

Across the country, they tell a great story of earning power and operating economy with the White 9000, engineered to exact operating needs.

With Gasoline or Diesel power, this new concept in tractor design is today's way to get maximum tractor utilization and top operating profits. No doubt about its quality—no match for its performance.

Now ... Top Payloads and High-Mileage Economy in Gasoline or



HIGHWAY TRANSPORT...CITY & SUBURBAN DELIVERY...EXTRA HEAVY HAULING...

...Top Earning Power WHITE TRACTORS"

Modern, functional design... proved by billions of low-cost miles in toughest hauling service... that's the story we get from operators about the White 3000.

And these new 3000's! Better look into the extra profitability of this great White Series—Gasoline or Diesel—with new mechanical features... new safety and visibility... and the greatest cab on the highway!

Your White Representative will show you how Whites are tailored to your exact needs—how we can help you get your kind of truck... for your operating conditions... for your top operating profits!



White
3000

All the functional advantages of the White 3000 with the exclusive power-lift cab... now economy-powered by Mustang Gasoline Engines or Turbodiesel Engines

THE WHITE MOTOR COMPANY

CLEVELAND 1, OHIO

FOR MORE THAN 55 YEARS THE GREATEST NAME IN TRUCKS

Diesel Power

WHITE 3000 City Trucks get more work done



A COMPLETE LINE OF WHITES ENGINEERED FOR MORE PAYLOAD PROFITS

Divco "Squares Off" Retail Trucks, Ups GVW in Wholesale Models

IN ITS SERIES 104 line of multi-stop retail dairy trucks, Divco offers three models, all with 75 case capacity in a "squared-up" body, on 100 3/4-in. wheelbase. At the same time, it has announced two additions to its "Dividend" Series of wholesale dairy trucks with 16,500-lb GVW rating.

The Series 104 retail dairy trucks are manufactured in three models—Model No. 114 with stand-drive controls and 4-cyl engine for short routes with close stops, Model No. 134 with sit/stand-drive dual controls and 4-cyl engine for more widely scattered stops and Model No. 154 with sit/stand-drive dual controls and 6-cyl engine for longer routes and more widely scattered stops or where more power is needed for hilly terrain, bad roads, etc.



New vehicles in the "Dividend Series" with 16,500 lb GVW are made in 10-ft body length with 117 1/2-in. wheelbase and 12-ft body length on a 130-in. wheelbase. Both models may be obtained factory insulated and refrigerated.

The 10-ft body truck, Model No. 51, has a 412 cu ft cargo capacity handling 165 quart milk cases and the 12-ft Model No. 41 provides 470 cu ft of cargo space for 180 quart milk cases.

The Model No. 41 is 18 1/2 ft long and has an overall height of 108 in. Interior cargo compartment dimensions are 76 in. wide by 142 1/2 in. long. The Model No. 51 has an overall length of 17 ft and a 76 by 125-in. cargo compartment. Both models feature full standing height headroom.

Both are powered by 6-cyl valve-in-head engine with 4-speed synchromesh transmission. Floor and all members below floor level are constructed of high-tensile steel. Side panels of the body are removable for simple repair or maintenance.

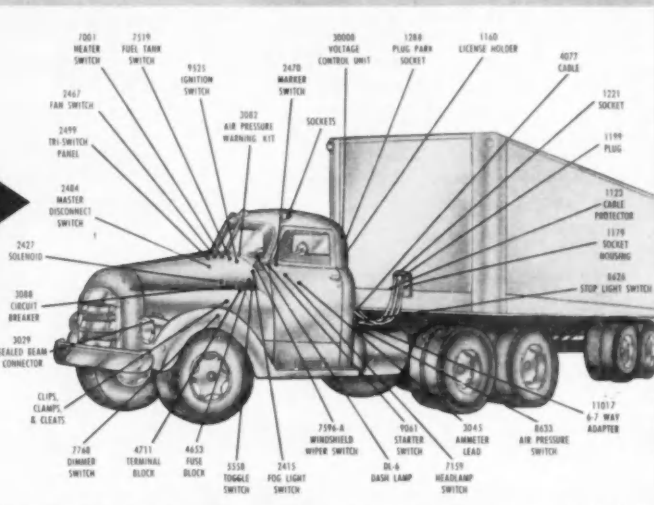
COLE-HERSEE QUALITY ELECTRICAL PRODUCTS

FOR EVERY BUS AND TRUCK

**DESIGNED TO CARRY THE
HEAVIEST LOADS UNDER THE
TOUGHEST CONDITIONS**

Fleet operators everywhere recognize and ask for Cole-Hersee electrical products because they know the name Cole-Hersee means quality and dependability. Cole-Hersee units are designed and engineered to meet the higher voltages, heavier loads and tougher service encountered in commercial use.

Cole-Hersee truck and bus products are carried by leading jobbers everywhere. Specify Cole-Hersee for the safest, most dependable, long-lasting electrical products you can buy.



These are only representative items. See our catalog for the complete line.

SEND FOR THE COLE-HERSEE TRUCK AND BUS CATALOG D-188.

Built up to a standard — not down to a price.



COLE-HERSEE
Over 40 Years of Consistently Better Products

20 OLD COLONY AVENUE, BOSTON 27, MASS.

Give your brake linings a "BETTER BRAKE"!

WET-GRIND ALL DRUMS

with the New
VAN NORMAN
No. 404

**"Speedy-Brute"
LATHE**



**"Vapo-Jet"
Wet Grinding
Gives Finest
Finish in
Shortest Time!**

Faster than any other method . . . that's Van Norman's exclusive "Vapo-Jet" method of turning and wet-grinding simultaneously all brake drums on the "Speedy-Brute". What's more, "Vapo-Jet" means completely dustless grinding, assuring a wet-ground finish that means longer life for brake linings.

Other important Van Norman "Speedy-Brute" features —

- Exclusive Load Compensator
- Revolving Sliding Spindle
- Variable Speed Drive
- Flick-O-Matic Quick Change Feed

You can have all of these features . . . for more work in less time — better quality — higher profit per man-hour — better satisfied customers for only 55¢ per hour, on Van Norman's Pay-As-You-Profit Plan. Write for your catalog and Pay-As-You-Profit Plan Folder today.

GET IT FROM YOUR JOBBER

VAN NORMAN AUTOMOTIVE EQUIPMENT CO., Springfield 7, Massachusetts

The Best-Equipped Shop is the Van Normanized Shop

"One Lipe DP Clutch went 112,000 miles without teardown ... two more are past 125,000 and still going strong."

— says CHRIS CASCIA, Maintenance Superintendent
Boss Linco Truck Lines, Buffalo, N. Y.



"In September, 1953, Boss Linco Lines received delivery of three White Tractors equipped with Lipe 14" Direct Pressure Clutches. We assigned them company numbers 467, 468 and 469.

"The Lipe clutch in #468 was removed after 112,000 miles because the driven disc had become covered with grease, through no fault of the clutch itself.

"You can be sure we're well satisfied with the mileage we received from this clutch. Except for the grease, it would no doubt still be on the road along with the Lipe clutches in Tractors #467 and #469, which have now gone over 125,000 miles with no down-time for clutch service.

"As you can see, this will make a very happy difference in the maintenance record of all three vehicles."

- If you would like to build clutch mileage like the above into your vehicles, write us today for complete details on the Lipe DP Clutch . . . now available in five sizes for engines developing from 300 to 1300 ft-lb of torque.

Manufacturers of Automotive Clutches & Machine Tools



Lipe-ROLLWAY
CORPORATION
SYRACUSE 1, N. Y.

Phony Fables about Oil Seals



Fable No. 3

"Why stock seals? Pound the old one back in!"

No one — not even a parts engineer — can tell for sure how much dependable service life a used oil seal has. And pounding a new seal in with a hammer is the surest way to end its service life right now! (Oil seals should be seated with a wood block and rubber mallet, or installation tool.)

Car manufacturers, brake lining and bearing makers, oil companies and mechanics agree "always install new seals every time old ones are removed". Then you insure against oil leaks, grease on brake linings and trouble-returns that cost you net dollars.

Make it easy to install new seals every time by having your jobber install a National Oil Seal service stock. Nationals are America's largest selling replacement seal; National stocks mean you have the right seal when needed and can do a better job at no extra work.

Call your jobber now about National Oil Seal Service Stocks.



Support this
industry-wide
program



NATIONAL SEAL
DIVISION, Federal-Mogul-Bower Bearings, Inc.
11031 Shoemaker Avenue, Detroit 13, Michigan
PLANTS: Van Wert, Ohio and Redwood City, California

Another Phony Fable:

"Dead numbers" galore in oil seal stocks

Not National stocks! National stocks are tailored to your fleet's exact seal needs. As you change equipment, your jobber alters the stock. National's realistic obsolescence policy insists he return for credit all numbers you can no longer use. And remember! Nationals are exact replacement, because National makes original equipment seals, too!



NATIONAL
OIL & GREASE SEALS
O-RINGS SHIMS

Approved original equipment for all cars, trucks, buses and tractors.

3890

DATES and DOINGS

NOVEMBER

- 15—Maine Truck Owners Assn., Fall Get-Together, Lafayette Hotel, Portland, Me.
- 15-16—Arkansas Bus and Truck Assn., Annual Convention, Marion Hotel, Little Rock, Ark.
- 15-16—Associated Motor Carriers of Oklahoma, Annual Convention, Mayo Hotel, Tulsa, Okla.
- 15-17—Oregon Trucking Assn., Annual Meeting, Multnomah Hotel, Portland, Ore.
- 18-20—Florida Trucking Assn., Annual Convention, Fountainbleau Hotel, Miami Beach, Fla.

DECEMBER

- 2-3—Missouri Bus and Truck Assn., Annual Meeting, Hotel Governor, Jefferson City, Mo.
- 3-8—Traffic Improvement Week (American Transit Assn., sponsor).
- 4-6—National Freight Claim Committee, American Trucking Assns., Fall Meeting, Hotel Balmoral, Miami Beach, Fla.
- 7—Delaware Motor Truck Assn., Annual Meeting, Hotel duPont, Wilmington, Del.
- 8-16—National Automobile Show (including truck makers), The Coliseum, New York, N. Y.

JANUARY

- 14-18—Society of Automotive Engineers, Annual Meeting, Sheraton-Cadillac and Statler Hotels, Detroit, Mich.
- 19-23—Truck-Trailer Manufacturers Assn., Annual Convention, Hotel Del Coronado, Coronado, Cal.
- 23-24—Executive Committee, American Trucking Assns., ATA Bldg., Washington, D. C.
- 31-Feb. 1—Private Truck Council of America, Annual Convention, St. Louis, Mo.

FEBRUARY

- 4-7—Automotive Accessories Manufacturers of America, Annual Exposition, New York Coliseum, New York, N. Y.
- 14—Empire State Highway Transportation Assn., Hotel Statler, New York, N. Y.

MARCH

- 5-7—Society of Automotive Engineers, National Passenger Car, Body and Materials Meeting, Sheraton-Cadillac Hotel, Detroit, Mich.
- 7-10—Pacific Automotive Show, Civic Auditorium, Seattle, Wash.

Ford for 1957



Here's one of the five station wagons Ford is offering in its 1957 line for fleet safety patrol work. Engines available range from 144 to 245 hp. This model, the Country Sedan, comes in 9 and 6-passenger versions, has a new self-raising rear liftgate.

now available!

GARRISON

POWER STEERING

for White Trucks

**Models 3016 through 3028 and
Models WC22 through WC28**



4609 East Sheila Street, Los Angeles 22, California

Available in kit form for field installation through White factory Branches, Distributors, and Dealers.

Provides effortless steering—With Garrison Power Steering a hydraulic booster cylinder does 80% of the work of steering. Under adverse road conditions only light pressure on the steering wheel gives driver complete control.

Increases maneuverability—Better steering control enables driver to quickly maneuver in and out of tight places. More work is accomplished each day with far less driver fatigue.

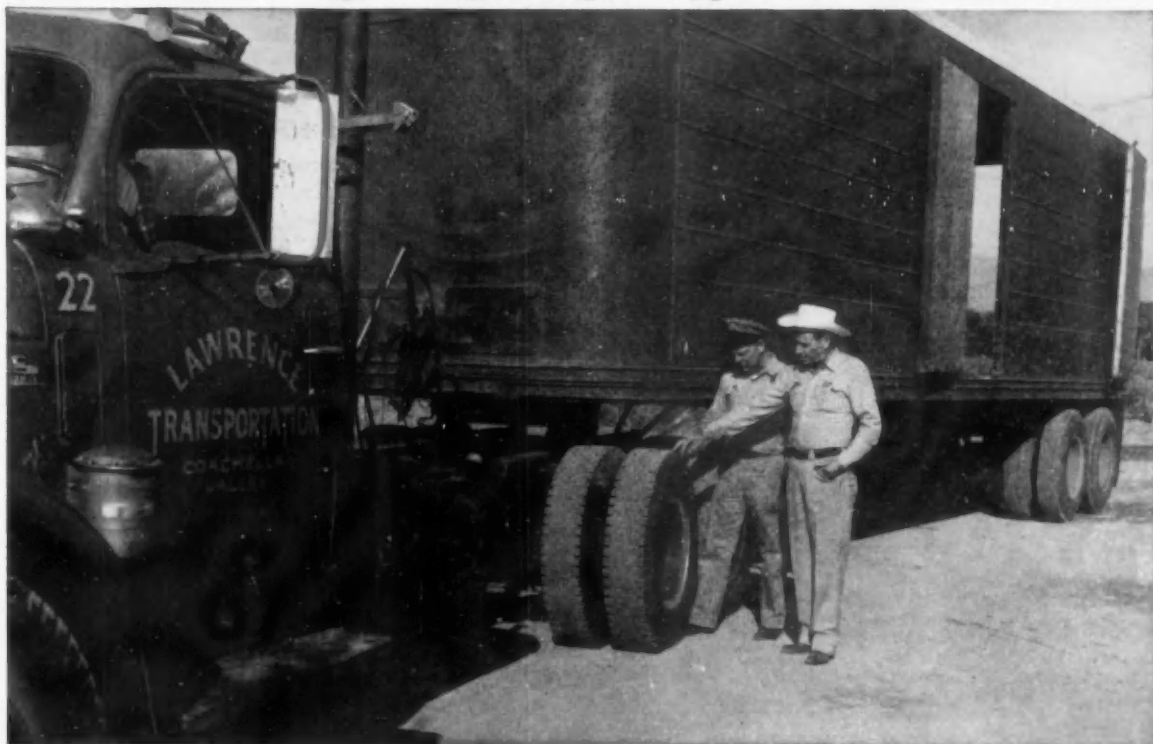
Eliminates jarring road shocks—The power cylinder also serves as a shock absorber, preventing road shocks from reaching the steering mechanism, reducing wear on your equipment.

Available for other makes and models! Garrison Power Steering is available for many makes and models of trucks as factory-approved original equipment or in kit form for easy installation in the field. Ask your dealer or write direct for full details.

Garrison kits have everything needed for installation...can be accomplished in a few hours in even the most limited service shop.



B.F. Goodrich



Traction Express tires roll up 138,000 miles before recaps, truck operator reports

LAWRENCE TRANSPORTATION trucks roll out of Indio to deliver produce throughout California. "100,000 miles from drive-wheel tires hauling on the hot roads of the southwest has always been my wish," Frank R. Lawrence writes, "but not a reality until I tried B. F. Goodrich Traction Express tires."

The Traction Express tires above were photographed just before being removed for recapping after 138,000

miles of service. "Needless to say," Lawrence continues, "as replacement tires are needed on any of my 20 units, B. F. Goodrich Traction Express tires will get my vote."

B. F. Goodrich builds the Traction Express with a tread that's up to 46% thicker than the tread of a regular tire. Curved cleats grip the highway to defy skids. And, if you choose, you can get the Traction Express with the

B. F. Goodrich *all-nylon* cord body. Nylon withstands double the impact of ordinary materials, resists heat blowouts and flex breaks. No wonder the *all-nylon* Traction Express body outwears even the extra-thick tread, *can be recapped over and over!*

Extra-mileage Traction Express tires are available in either *all-nylon* or rayon construction at your B. F. Goodrich retailer's. Or write B. F. Goodrich Tire Co., A Division of The B. F. Goodrich Company, Akron 18, Ohio.

FREE SAFETY REFLECTOR

when you join the Safe Driver League
Sponsored by B. F. Goodrich

Sign the safe driving pledge at your B. F. Goodrich retailer's. Show the President's Committee for Traffic Safety you're out to make our highways safer.



RODGERS MOTOR LINES, INC., Scranton, Pa., owns 375 units, reports BFG *all-nylon* Traction Express tires have been recapped twice.

Specify B.F. Goodrich tires when ordering new trucks or trailers

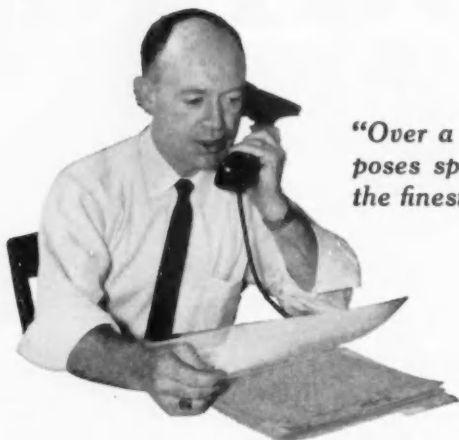


Your B.F. Goodrich retailer is listed under Tires in the Yellow Pages of your phone book

"AC Oil Filters only!"

That is the word at the West Side Terminal of Commercial Carriers, Inc., one of the largest automobile carriers in the world.

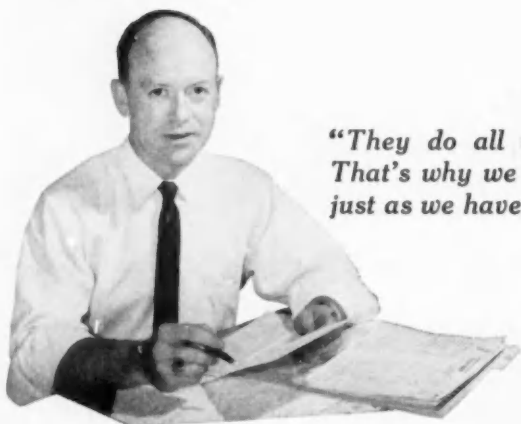
"Over a million miles a month total on 140 vehicles poses special maintenance problems. Our rigs need the finest oil filter protection money can buy—ACs!"



"We change to a new AC Oil Filter every second oil change—about every 4,000 to 5,000 miles!"



"They do all we could expect of any oil filter. That's why we standardized on AC Oil Filters just as we have on AC Spark Plugs!"



Lou Smith, superintendent of maintenance, keeps 140 commercial carriers rolling to the tune of more than 12,000,000 miles a year. His drivers make long runs under full load all the way. Then, they "deadhead" back . . . and fast! Schedules are tight. Deliveries must be on time.

So, when Lou Smith says, "AC Oil Filters and Spark Plugs only!", he is speaking from long experience. Why not specify AC in your fleet, too?



Watch
WIDE WIDE WORLD
NBC-TV



OIL FILTERS

AC SPARK PLUG



THE ELECTRONICS DIVISION OF GENERAL MOTORS



"You can drive 10 hours on this seat and not get tired!"

Says Kenneth King of Signal Trucking Co.



Signal Trucking Company of California, one of the nation's largest carriers, recently purchased 10 big Reo AC-703 tractors factory-equipped with new Bostrom Level Ride 80 torsion suspension truck seats. Kenneth King, winner of 9 safety awards as an outstanding Signal driver, said, "My cab now has a passenger car ride. With this Bostrom truck seat I always feel in complete control of the truck . . . even going around sharp curves and over washboard roads. You can drive 10 hours on this seat and never get tired."

Progressive trucking firms, like Signal, find that by providing the best in equipment for their drivers, employee morale stays high and driver turn-over low. By keeping drivers rested and alert, schedules are easier to meet and accident rates kept at a minimum.

Electronic tests prove that the new Level Ride 80 Bostrom seat gives a five times better ride than any other truck seat . . . actually transmits 80% less vibration to the driver. In addition to the floating action of the torsion suspension, the new Bostrom seat has five adjustable posture controls to fit all drivers, giving choice of over 400 different sitting positions to reduce fatigue.



UNIVERSAL APPLICATION The Bostrom Level Ride 80 is available factory installed on all major makes of trucks and as a replacement seat for every truck. See your truck dealer or truck parts distributor — TODAY!



BOSTROM TRUCK SEATS

© BOSTROM MANUFACTURING CO. • 100 W. OREGON ST. • MILWAUKEE 4, WIS.

DESIGNED

FOR

DUTY



IN

CLARK

ENGINES

Clark...one of the leading manufacturers using Perfect Circle 2 in 1 chrome rings for service requirements.



UP FRONT WITH **CCJ**

NOVEMBER 1956 FLEET HIGHLIGHTS AS REPORTED BY COMMERCIAL CAR JOURNAL

ATA CONVENTION at the Waldorf-Astoria hotel in New York City end of last month provided an excellent review of industry problems both past and future. Among the many top-level speakers was Interstate Commerce Commission Chairman Arpaia. He reiterated his views on the rail approach to the Weeks report (Sept., page 76), said: "No industry should advance its own interest without regard to its effect on other segments of the same industry." Commissioner Walrath, speaking before ATA's private carrier group, admitted there was no absolute dividing line between certain types of private and for-hire carriage. He urged his listeners to "constantly review your transportation requirements" with the end of returning such freight as possible to public carriers. From Congressman Hale Boggs (of highway bill fame) come a promise to constantly review the highway taxation picture from the standpoint of equitable distribution of costs. And several representatives of the Bureau of Public Roads outlined the five major studies now under way designed to help settle that big question—Who shall pay, how much, to carry what size load?

NEW OFFICERS elected by American Trucking Assns. were named just before the final curtain of the week-long convention. New president is R. C. "Russ" Williams who has his own oil field hauling business in Russell, Kan. He succeeds C. J. "Jack" Williams of Milwaukee, Wis., who automatically moves up to board chairman. Into the post of first vice-president (traditionally president the following year) comes Guy Rutland, Jr., of Motor Convoy, Inc., Atlanta, Ga. Other officers include A. E. Cudlipp of Texas—second vice president, E. W. Krause of Indiana—third vice president and James B. Godfrey, Jr., of Michigan—fourth vice president. John M. Akers was renamed treasurer and Harry L. Gormley of Pennsylvania was elected secretary succeeding Chester G. Moore, named honorary secretary for life.

LIFE-LINE is the title of a stepped-up advertising campaign that will feature a gigantic, multi-page spread on the trucking industry in LIFE magazine. Plan is for it to appear in an early January issue. Cost will be approximately \$350,000. While it is an ATA Foundation project, it is hoped that it can be financed by trucking industry suppliers outside the existing Foundation membership. Contributions in any amount are welcome. (During the convention, better than \$25,000 was subscribed.)

CONGRATULATIONS to National Truck Rodeo winners Everal Kirby, William Metsch and Leland Hellestad (page 302, this issue) . . . to Ted V. Rodgers Journalism Award winners George Koether of LOOK magazine, Wilson Hirschfeld of the Cleveland Plain Dealer and Carlton Morris of the Gates County (N.C.) Index . . . to maintenance award winners Pacific Intermountain Express, Baltimore Transfer, Dan Dugan Oil Transport and AMW Trucking (Wis.) . . . and a final salute to Gisele MacKenzie, our own nomination for "best in show" on the entertainment side.

DETROIT DISPATCH

IF YOU MISS the truck exhibits at the National Automobile Show, scheduled for Dec. 8-16 at the New York City Coliseum, you'll have another chance in January. Chicago Auto Show is scheduled for Jan. 5-15 in the International Amphitheater.

BY THE END of next month, ICC's brake regulations require (1) service brakes on towing vehicle sufficient to stop vehicle in case of trailer break-away, (2) automatic and manual means of operating trailer brakes in emergency (automatic to operate when pressure drops to 20 psi), (3) second, independent control for vacuum brakes on combinations, (4) check valves on air or vacuum brake systems, (5) audible or visible signal to warn of low vacuum or air pressure. (For full text of the brake rules, see page 17, June.)

ICC SEES NO need for further postponement of the brake regs, is presently informally discussing with Bureau of Public Roads possible tests of emergency brake systems. Likelihood is that specific decisions on testing will not be made until it is seen how brake regs work in actual practice.

INCIDENTALLY, don't overlook a stop light switch on the emergency systems. Truck and trailer maker engineers and ICC officials did until it was finally noticed during some recent tests. The oversight is being corrected.

ICC ROAD CHECK made late in August turned-up almost identical findings to the one made in May this year (July, page 18). Defects were again found in 90 per cent of vehicles checked according to the ICC. Fleet operators are warned that ICC has about 100 safety inspectors on its staff, plans to continue these twice-yearly road checks at unannounced times and places.

USE OF STAINLESS STEEL on a gage-for-gage basis in all types of flammable truck and trailer tanks have been authorized by ICC. For details, see latest revision of Specifications MC-300, 303 and 304.

GOODRICH ANNOUNCES successful testing of synthetic rubber truck tires by Army Ordnance (Oct., page 35). They met or surpassed all military requirements says Goodrich. At the same time, Monsanto Chemical has

WASHINGTON WATCH

FEDERAL TRUCK TAX REGS appeared on Oct. 2, and fleet operators were given until Oct. 17 to file their views, favorable or otherwise, with the Internal Revenue Service. Response was so great that the IRS decided to hold oral hearings, starting Oct. 30. Dust is expected to settle and the rules attain final form around the end of this month.

MAJOR POINTS PROTESTED include grouping of unladen weights and assigning an "average" load weight to arrive at the GVW without regard to the load customarily carried, i.e. steel or potato chips. Another sore point was no allowance for tractors used in auto carrier or household goods service. Fleet operators would also like a license plate as evidence of tax paid plus provision for tax refund in the event vehicle is destroyed or taken out of service.

TRUCKERS ANTI-TRUST AGAINST several eastern railroads is now in its second month. Early days of the case were marked by an unsuccessful attempt at out-of-court settlement, death of Robert McCay Green, leading lawyer on the truckers' side. At press time there were no indications of an early settlement.

BERTRAM D. TALLAMY WILL be nominated to the job of Federal Highway Administrator in January, the new top-level highway job in the Dept. of Commerce (Sept., page 34). He served as Superintendent of Public Works (in charge of highway construction) for New York State, is presently New York State Thruway Authority chairman. In the interim, John A. Volpe, who recently resigned as Massachusetts Commissioner of Public Works to return to private industry, will serve as Administrator.

come-up with a compound it says will permit production of butyl rubber tires that will operate without heat build-up.

NEW MODEL announcements in this issue include GMC (light and medium duty), Chevrolet, Dodge and Studebaker. GM's '57 models will continue to offer the "Hydra-Matic" automatic transmission rather than the new dual-coupling unit used on '57 GM passenger cars.

AIR-SUSPENDED fifth wheels are being considered. Some type of air cushioning either above or below the fifth wheel plus air suspension on rear axles would give semi-trailer a 100 per cent air ride.

GREYHOUND HAS dropped its threatened suit against GM involving mechanical failures in the "Scenicruiser" buses (Aug., page 34). Settlement of the problem was very amicable, with Greyhound placing an order with GM for 500 new intercity coaches.

HERCULES-GALION Products Corp., Galion, Ohio, has purchased Kingham Trailer Co., plans to double capacity of Kingham's Louisville, Ky., plant.

INVESTIGATION OF traffic accidents and vehicle safety by a Congressional subcommittee (July, page 20—Sept., page 34) begun this fall may "die on the vine." Public hearings scheduled for this month were cancelled with no reason given.

NEW ATA FOUNDATION members as announced at last month's ATA convention include Aluminum Co. of America, Pure Oil Co. and Reo Motors, Inc. Announced also last month was renewal of Trailmobile's participation in the Foundation to the tune of \$50,000.

RAIL-TRAILER CO. SAYS motor common carriers are using Pennsylvania RR's TrucTrain service to the tune of 4000 trailers per month. Bulk of traffic of the 28 truck lines using the piggy-back service moves between Chicago, St. Louis or New York.

TRUCK TONNAGE

AUGUST TONNAGE of intercity general freight hauled by truck was up 1.3 per cent over August 1955 and 12.7 per cent over July 1956, reports ATA's Research Dept. As compared to the same period last year, tonnage for the first eight months this year is up 6.5 per cent. Highest gains in August as compared to August 1955, were made in the Rocky Mountain region—up 17.3 per cent, Southwestern—10.6.

Month	% Change from Previous Month	% Change from a Year Ago
August, 1956	+12.7	+ 1.3
July, 1956	.....	+11.2
2nd Quarter '56	.....	+ 5.6
June, 1956	- 0.9	+ 5.8
May, 1956	+ 5.5	+ 6.4
April, 1956	- 5.2	+ 0.9
1st Quarter '56	.....	+ 7.9
March, 1956	+ 6.8	+ 1.4
February, 1956	- 1.0	+12.7
January, 1956	+ 3.4	+12.9
4th Quarter '55	.....	+16.1
December, 1955	- 6.3	+11.9
November, 1955	- 0.9	+17.0
October, 1955	+ 1.5	+10.2
3rd Quarter '55	.....	+15.4
September, 1955	+ 1.2	+17.0

TRUCK AND BUS PRODUCTION

Make	For Weeks Ending				Total Jan. 1 to Oct. 13, 1956
	Oct. 13	Oct. 6	Sept. 29	Sept. 22	
Available	4	4	11	7	302
Chevrolet	6,898	5,752	0	128	276,585
G.M.C.	1,623	1,337	74	1,360	72,307
Diamond T	95	132	117	129	4,138
Divco	60	60	60	60	2,877
Dodge and Fargo	2,002	1,963	1,553	0	69,888
Ford	5,512	5,801	6,401	6,150	241,955
F. W. D.	.....	21	33	33	1,298
International	2,642	2,484	2,687	2,623	108,598
Mack	292	295	501	324	14,565
Marmoon-Herrington	13	20	31	30	646
Reo	88	72	89	89	3,102
Studebaker	101	4	0	0	11,507
White	330	359	150	373	14,128
Willys	1,557	1,490	1,579	1,487	48,459
Other Trucks	109	89	103	103	4,506
Total Trucks	21,028	19,883	13,389	12,696	875,261
Buses	73	71	52	80	3,508
Total Trucks and Buses	21,099	19,954	13,441	12,976	878,769

Source: Automobile Manufacturers Assn.

IN THIS ISSUE

Special feature of this 1956 Annual Buyers' Directory is an index by name of the products advertised. It's called **WHO'S GOT WHAT YOU WANT?**, begins on page 69. The complete **PRODUCT DIRECTORY** (everything from Abrasives to Wrist Pins) starts on page 77.

Three more directories make this issue even more valuable as a reference book . . . the **FLEETMAN'S ASSOCIATION DIRECTORY** (page 109) . . . **FLEET COURSE SCHOOL DIRECTORY** (page 314) . . . **ARMY MOTOR TRANSPORT RESERVE UNIT DIRECTORY** (page 318).

Also, you'll find **1957 NEW TRUCK MODEL** announcements from **GMC** (page 60), **CHEVROLET** (page 62), **DODGE** (page 64) and **STUDEBAKER** (page 66), as well as details on some new **DIVCO** models (page 24).

The Road Ahead



SOME 855 MILES OF continuous superhighway connecting New York City and Chicago becomes a reality middle of this month when the last link in the Indiana Turnpike is scheduled to open. To use it though, you'll have to pay all normal highway user taxes plus "extra fare" for it will be toll road all the way! And, according to Undersecretary of Commerce Louis Rothschild, there'll be no comparable "free" route for 19 years unless the traffic volume exceeds the toll facility's capacity. Said he: "There is no intention whatever of building any Interstate routes paralleling a toll road which until 1975 will adequately serve the traffic needs of the area through which it runs."

ONE WAY TO "FREE" the route exists. The recently passed highway legislation says Congress in 1958 should consider whether or not to "buy" the toll roads with funds appropriated for construction of the Interstate highways. If Congress does so, the toll roads would be incorporated into the Interstate Highway System as "free" roads.

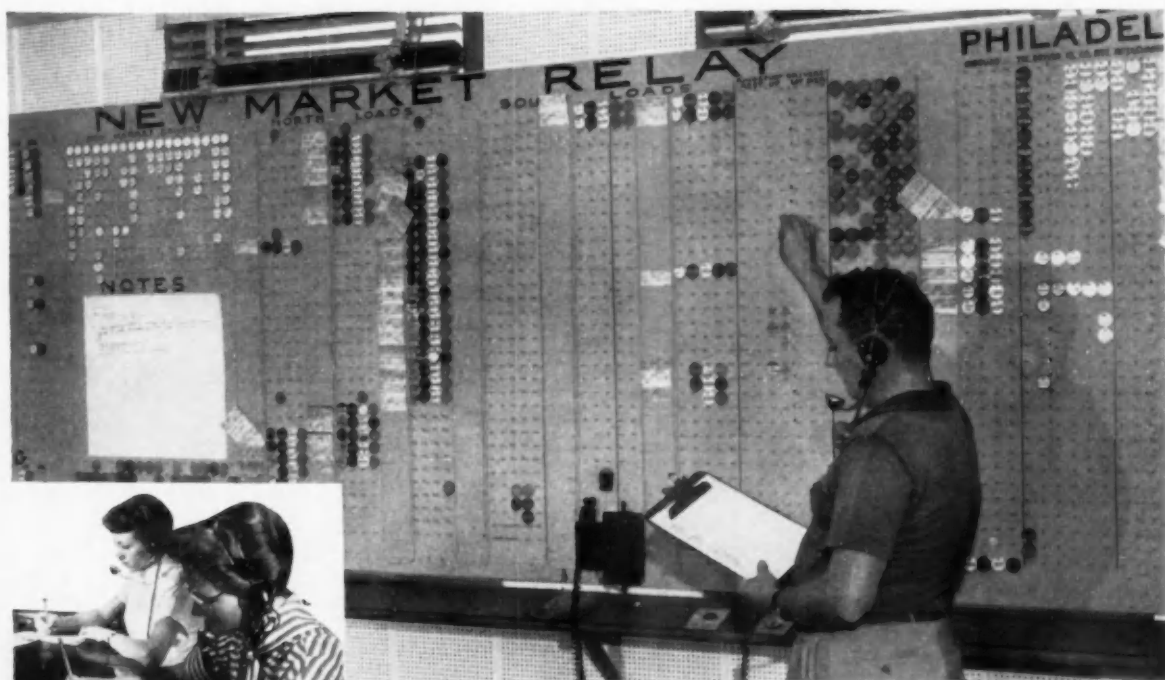
DECEMBER 1 IS opening day of a month-long attack on traffic accidents sponsored by just about every highway-user group in the country. If you haven't started your planning yet, you can get many ideas from the National Safety Council, 425 North Michigan Ave., Chicago 11, Ill. For both fleet and community traffic safety promotion, order from the Council the "Back the Attack on Traffic Accidents" special issue of its magazine Public Safety (Vol. 49, No. 7). There'll be a nominal charge, but it's worth it.

COMPULSORY INSURANCE IS slated to be a hot topic in most of the 44 state legislatures scheduled to meet next year. Massachusetts has it, New York gets it on Feb. 1, 1957, but it was considered by one-third of the states in 1955—last heavy year for state legislation. Many safety experts think a better answer is strict enforcement of uniform motor vehicle laws. Presently, the Governors' Conference has a committee studying the possibility of all states adopting these model traffic rules.

KISS-N-RIDE REDUCES the amount of parking space required at transit stops, says W. R. McConochie, traffic and transit department chief engineer, DeLeuw, Cather & Co. His idea, as presented at the annual meeting of the Institute of Traffic Engineers, is that the daily commuter is driven to the bus stop where he is kissed good-bye by his wife who then keeps the car for other uses during the day.

HERE ARE automotive production totals for August and the first eight months of 1956, bringing the year's statistics up to the end of the vacation season:

In thousands of units, except bus sales are in actual numbers	New Truck Registrations		Truck Factory Sales—Domestic		Truck Trailer Shipments		Bus Factory Sales—Domestic		Truck and Bus Tires					
									Replacement Shipments		Original Equip. Shipments		Inventory End of August	
	August	8 Months	August	8 Months	August	8 Months	August	8 Months	August	8 Months				
1956	79.8	613.2	88.8	619.9	5.6	47.7	397	2973	819.5	6024.6	349.1	3240.7	3216.9	
1955	92.1	610.6	80.1	709.2	7.0	48.2	410	2270	922.3	6106.5	378.1	3276.7	2272.3	



(Above) In central dispatch office in Kingsport, Tenn., an up-to-the-minute check is made by Bell System private line telephone of all trailer loads.

(Left) Claims department traces and expedites shipments through the use of Bell System private line telephone.

How Bell System private line telephone serves The Mason and Dixon Lines, Inc.

The Mason and Dixon Lines, Inc., operating between Atlanta and New York, daily depends on Bell System private line telephone in its high-speed, high-efficiency operation.

Dispatching: For example, a recent shipment left Kingsport, Tennessee, for New York. While it was en route, the shipper changed the destination to Philadelphia. Through the use of Bell System private line telephone facilities, the shipment

was rerouted and arrived in Philadelphia the next day.

Claims: A report is made by private line telephone of daily floor checks at each terminal. This has made possible prompt settlement on damaged freight and immediate dispatch of misrouted shipments to their destination.

Other phases of The Mason and Dixon Lines operation which have been improved by the use of private

line telephone include customer relations, sales, cost control, maintenance, accounting, traffic.

* * *

A survey of your communications may reveal ways in which your firm can save time and money. A Bell System communications engineer will be glad to work with you. Call your Bell Telephone business office.



Bell Telephone System

PRIVATE LINE TELEPHONE • PRIVATE LINE TELETYPEWRITER

CHANNELS FOR: DATA TRANSMISSION • TELEMETERING • REMOTE CONTROL • TELEPHOTOGRAPH • CLOSED CIRCUIT TV



"When tire temperatures climbed above

**HOW P.I.E. INCREASED PAY LOADS AND TIRE LIFE
WITH TRIPLE-TEMPERED 3-T NYLON CORD!**

"You'd call 115° Fahrenheit plenty hot—for midnight.

"But by noon, across Mojave Desert, up Baker Grade—near Death Valley—our thermometers sizzled at 145°!

"In all that heat, we pulled our fully loaded Dromedary tractor and Hi-Cube trailer combination over level stretches at maximum allowable speed—until you'd bet your bundle a tire would blow.

"But none did.

"Then we took off on a 22-mile, 3500-foot climb to the top of Baker Grade—and down again. We kept rolling mile after mile over red-hot pavement—tire temperatures reached an average of 224°—brake drums (an inch from the tire beads) reached an average temperature of 550°!

"And still nothing happened!

"Those new, 3-T Nylon Cord tires were taking more torture on this run than any previous tires—fabric or steel cord—AND NOT ONE SIGN OF TROUBLE!"

"That meant our search was over. The tires could really take it. We could carry all the extra pay load our new Dromedaries were built to carry—we could get top flexibility in distributing cargoes.

"It was 'hot' news—wonderful news—for Pacific Inter-mountain Express hauls almost 3 million tons yearly and every inch gained, every added pay-load pound, means money in the bank!

"And when you run tight schedules over the prairies, deserts and mountains between Midwest and the West Coast, your tires stand up—or you're *really* behind the 8-ball!

"That's why we ran the Baker Grade test. *That's how*

Buy and Specify

GOOD

MORE TONS ARE HAULED ON GOODYEAR TRUCK



boiling, we knew we had something 'hot!'

we learned that tires built with Goodyear's Triple-Tempered 3-T Nylon Cord can take astonishing punishment—and just keep on rolling!"

P.I.E. is rolling on them now — Dromedary tractors and trailers, Line Haul tractors and reefer trailers, tanker trucks and trailers—and P. I. E.'s Maintenance Department reports:

"Substantial decreases in down time; substantial decreases in tire-costs-per-mile; ONE spare tire to rig now adequate; Goodyear Triple-Tempered 3-T Nylon Cord takes DOUBLE the recaps of tires built with UNTempered cords."

So why operate at higher cost than competitors?

Get the facts and figures from any Goodyear dealer—or Goodyear, Truck Tire Dept., Akron 16, Ohio.



**3-T
NYLON CORD**
makes safest
**TUBELESS
TIRES**
•
**ONLY
GOODYEAR
TIRES HAVE
3-T NYLON
CORD**

TRACTION HI-MILER
built with 3-T NYLON CORD
Available in TUBELESS or TUBE-TYPE

Look for this nearby Goodyear dealer sign
for better tire values—better tire care.

Hi-Miler—T.M. The Goodyear Tire & Rubber Company, Akron, Ohio

YEAR
TIRES THAN ON ANY OTHER KIND

Fleet tests prove new Champions can deliver

3 times longer spark plug life!

It's a fact—proved in trucks of heavy-hauling fleets the country over:

The all-new alloy of Champion's Powerfire electrode gives thousands of miles of extra service! In one truck tested, new Champions with Powerfire went 12,797 miles for a 420% increase of former mileage. In another, they operated for 12,807 miles for a 320% increase of former mileage. Some trucks got less mileage, some more—but in all the trucks tested, an average increase of more than 300% of former mileage was recorded!

The new Powerfire electrode is designed to withstand combustion chamber temperatures up to 200 degrees higher than ordinary electrodes. It is today's best for modern high-compression truck engines with their vastly increased combustion temperatures—today's best for all engines in sustained, high rpm

heavy-hauling operation. It cuts maintenance time and costs—ups power and performance, for faster, more dependable, more profitable truck operation.

Try a test set the next time you replace and let your own records show you how much better these new 5-rib Champions are—how much longer they last, how much money they save.

CHAMPION SPARK PLUG COMPANY
TOLEDO 1, OHIO

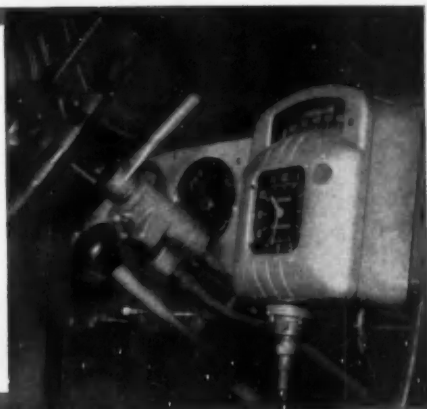
5-RIB

CHAMPION
SPARK PLUGS



Here's a typical Fleet experience

Mr. James J. Lowry, owner-operator of E & L Transport, Dearborn, Mich., says: "We deliver new automobiles to dealers in 47 states with our fleet of 655 Ford truck-tractors. Champions have always been our best insurance against road breakdowns and the new Powerfire electrode is the greatest. Where plugs used to average 7,000 miles, new Champions give us 10,000 to a service check and another 10,000 after that."



"Tachographs

really pay off in dollars and cents
by controlling speed"

says: George Silver, Safety Supervisor
Campbell 66 Express, Inc., Springfield, Mo.

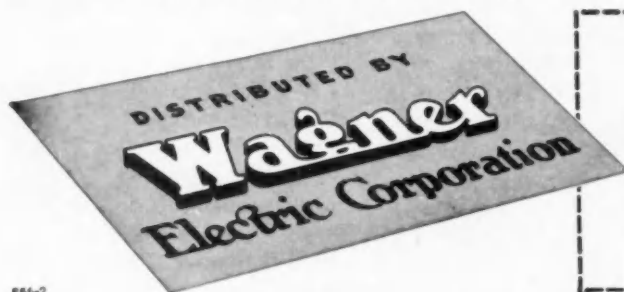
Excessive speed can cost you money in undue tire wear, engine maintenance and fuel consumption. Like Campbell 66 Express, Inc., you can gain more economical and efficient over-the-road operation with Tachographs. They also help maintain schedules and encourage better driving habits.

Tachographs can be mounted on the dash board and connect directly to the speedometer cable. A wax-coated chart is inserted inside the durable aluminum case, and accurately and permanently records such vital trip information as:

- When engine started
- How long it idled
- When vehicle was in motion
- How fast it traveled
- When it stopped and for how long

Illuminated dials show time of day, total mileage and m. p. h. (Tachograph models which indicate and record engine r. p. m. are also available.) A red warning light on the Tachograph signals the driver when a pre-determined speed is exceeded.

Yes, Tachographs do add up to increased fleet economies and greater road, cargo and driver safety. They will do the same for every vehicle you operate, too. Send the coupon below for your free copy of Wagner Bulletin SU-3—it tells the whole "inside" story.



CAMPBELL 66
EXPRESS, INC.

Wagner Electric Corporation
6400 Plymouth Avenue
St. Louis 14, Missouri

Gentlemen:

We have been using Tachographs on our vehicles for a number of years (each of our 236 tractors is Tachograph-equipped), and have had an excellent opportunity to analyze the results of their use.

The recorded information from trip charts keeps growing in importance with our continued use of these instruments. Through analysis of average speed, we determine our power units' load-carrying ability. Charts show exact driving time for various trips and the efficiency of our loading and unloading operations.

Tachographs really pay off in dollars and cents by controlling speed. Engine maintenance and tire wear are reduced. The value of Tachograph information in court cases is incalculable. We feel that it has greatly benefited our safety record.

It is our regular practice to put a Tachograph in each new tractor we purchase.

Sincerely,

CAMPBELL SIXTY-SIX EXPRESS, INC.

George Silver
George Silver
Safety Supervisor

"HUMPIN' TO PLEASE"

Wagner Electric Corporation

6476 PLYMOUTH AVE., ST. LOUIS 14, MO.

Please send a copy of Bulletin SU-3.

Name and Position _____

Company _____

Address _____

City _____ State _____

We operate _____ Vehicles
(NUMBER)

S56-2

LOCKHEED HYDRAULIC BRAKE PARTS and FLUID • CoMoX BRAKE LINING • NoRoL • AIR HORNS • AIR BRAKES • TACHOGRAPHS • ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL CRANE BRIDGE BRAKES

COMMERCIAL CAR JOURNAL, November, 1956

41



Laugh it off!

The Freight Terminal Manager and the Traveling Auditor were on a night fishing trip in Florida. In order to get to the best fishing waters, they had to travel two miles through the swamps.

"I understand the alligators in this swamp won't hurt you if you carry a lantern," said the Traveling Auditor.

"That's true," replied the Freight Terminal Manager. "Of course, a lot depends on how fast you carry it."

CCJ

The maintenance superintendent had a pretty teen-queen daughter who asked her boy friend to see the football game over the family television set. When the boy arrived, he brought a jug that obviously contained a mixture involving alcohol, and during the game he took a nip now and then. At last the maintenance superintendent could stand it no longer.

"Young man," he said, "I'm 47 years old, and never in my life have I touched liquor."

"Well, don't get no ideas, Pop," the brash boy friend snarled. "You ain't gettin' any of this."

CCJ

Protective Papa: "Daughter, that fellow who walks you through the park doesn't look very polished."

Maintenance Steno: "Well, Daddy, I admit that he's a little rough around the hedges."

CCJ

1st Freight Loader: "I don't know what's the matter. My girl said I was a model companion."

2nd Freight Loader: "A model companion? Then what are you complaining about?"

1st Freight Loader: "She just traded me in for a new model."

Steno May: "I like 'Buttons and Bows'."

Steno Fay: "I like only bows."

Steno May: "What's the matter with buttons?"

Steno Fay: "They bother my beaux!"

CCJ

The wealthy fleet operator was attending an eastern convention, when he caught the eye of a very luscious and charming girl at the registration table. Turning on his charm, he confidently asked her to have dinner with him. And she accepted. As the evening wore on he became completely enamored of her.

"Look at this gold class ring, 18 carats. And you can have it . . . if you like. Or this gold stick-pin with my club insignia, nine carats. Or even this gold watch . . . 11 carats. . .

"One minute," the cuddlesome cargo of charm said, "with all these carats, would you expect me to behave like a rabbit?"

Cici Jay



"Okay, Bart, fire away!"

The Dock Foreman and his bride were honeymooning and decided to try boating. They drifted out too far and were caught by a current that carried their boat beyond the sight of land. The Dock Foreman started to pray:

"O Master, if you will wash us back to shore I'll quit smoking, gambling, drinking—"

"Don't go too far, Honey," shouted his bride. "I think I see a sail."

CCJ

The employment application form of Fleety-Fleet Motor Express includes a question, "Have you ever been arrested?" On the following line, for the benefit of those whose answer is "Yes," is the question "Why?"

One truck driver applicant answered the first question, "No" and, after the second, wrote, "Never got caught."

CCJ

Diesel Mechanic: "What's the name of that new girl I hear you've been datin' lately?"

Carburetor Specialist: "Oh, informally, I call her 'Rowboat.'"

Diesel Mechanic: "That's ridiculous. A rowboat is a big thing with a pointed nose and a flat bottom."

Carburetor Specialist: "That's my girl."

CCJ

Lift Operator: "Say, how'd you get that swelling on your nose?"

Freight Checker: "Bent down to smell a brose in my garden."

Lift Operator: "There's no 'B' in 'rose'."

Freight Checker: "There was in this one."

Resume Work



Beveled Chrome-Vent Rings in Hastings 2C Chrome Sets are covered by U. S. Patent Nos. 2148997, 2511874, 2565042, 2712971

Oil control starts right now with this Chrome Set !

Now get both—long-life chrome plus oil control that starts right now.

Use Hastings Chrome-Vent oil rings with patented, beveled rails that seat 3 to 4 times faster than conventional chrome!

These new Hastings oil rings—now in every 2C Chrome Set—are your best guarantee of quick, effective oil control. The exclusive beveled rails make fast, fineline contact with any cylinder wall—tapered, out-of-round or rebored. And because beveled design permits use of a lighter inner-spring, you get a gentle, soft-pressure contact every time.

Next ring job, install Hastings Chrome-Vents... beveled to seat super-fast and give immediate oil control... Motor Engineered by replacement specialists.

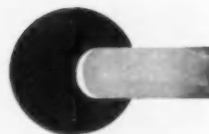
HASTINGS MANUFACTURING COMPANY, HASTINGS, MICHIGAN
HASTINGS LTD., TORONTO
Piston Rings, Casite, Wear Reducer, Oil Filters, Spark Plugs

Tough on oil-pumping
Gentle on cylinder walls



CONVENTIONAL CHROME RAIL

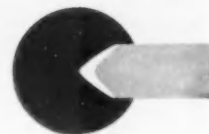
originated by Hastings...
now replaced by Hastings
exclusive Beveled Chrome



Beveled Chrome-Vent

BEVELED CHROME RAIL

makes fineline contact with
cylinder wall for a faster seat.
Less area to wear-in means
less time to break-in.



HASTINGS
Beveled Chrome-Vent
Piston Rings

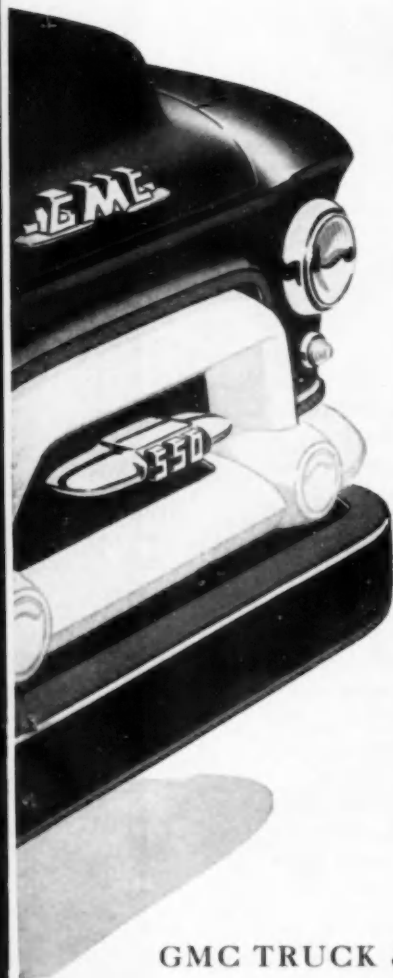
Why settle for a second-

GMC's great new at



best 50,000 GCW tractor?

**F550 is the only one—
any price—that can give you all this—**



210 V8 POWER—STANDARD That's more standard V8 power than you'll find in any other truck in the weight-class. And it's delivered by a modern short-stroke engine teamed with a 4-barrel carburetor to outperform them all!

EXCLUSIVE DUAL-PURPOSE CAB This cab has the easy engine accessibility and low-to-the-curb height of any conventional model. Yet it has the short dimensions of a c.o.e. Only a GMC has it!

FAST AND EASY MANEUVERING A short wheelbase with a smaller turning radius—together with Safety Power Steering*—makes it quicker and easier to jockey this GMC through traffic or up to a crowded loading dock.

A HALF-TON GREATER CAPACITY You haul as much as 1,040 lbs. extra payload instead of the freeloading chassis "fat" that's found in other 50,000 GCW trucks. And you can swing a "square-nosed" 35-foot trailer in *any* 45-foot State!

COST-SHRINKING HYDRA-MATIC* You never spend another dime on clutch replacements. You're protected from drive-line and rear-end troubles. Brakes and tires last longer. And you can *double* mileage between overhauls!

AND A FAR LOWER PRICE-TAG, TOO! Despite GMC's clear-cut superiorities over *all* the other trucks in its class, it's priced right down with the "low-priced" haulers. And it's yours for far *less* than many other 50,000 GCW trucks. Get the amazing figure—now—at your GMC dealers!

*Optional at extra cost

GMC TRUCK & COACH—A General Motors Division



The Lady is Fickle

Like many other things in life, a successful driving record often depends on whether Lady Luck smiles or frowns on you. But the Lady is fickle: a wench with ever-changing moods. She'll lull you into a false sense of security with a seemingly endless number of favors, only to ditch you for some other guy when you need her most. She's a Siren leading you on, a charmer calming your fears, a laughing spectator at your funeral.

Woo her if you wish. Gently stroke the softness of her furry rabbit's foot. Enjoy her favors while you can. Enjoy the pleasure of going steady—while it lasts. But don't fool yourself. You have no permanent claim on the Lady's affections. One of these days she'll leave you. And the parting could be oh, so fatal.

The Lady is strange, though. The less you ask of her, the more favors she is apt to grant you. The more you depend on your own skills, alertness and common sense to stay out of danger, the better chance you'll have that she'll be riding with you when you need her.

Now ain't that just like a woman?



ANOTHER NEW **AUTOCAR** ... STEERED BY **ROSS**

Ross

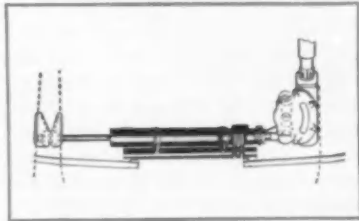
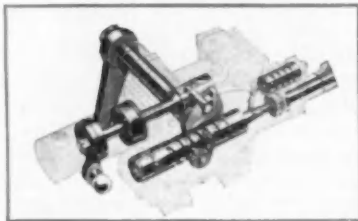
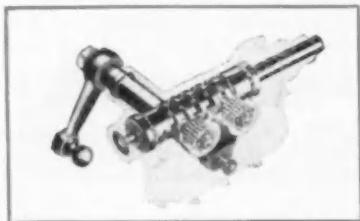
► **Autocar Model DC 100 DTN** . . . born and bred to the gruelling grind of quarry work . . . handles a tough job dependably and well—with the help of easy, safe, trouble-free *Ross Steering*.

Throughout **50 years** of exclusive steering specialization, Ross gears have been distinguished for long life, simplicity of adjustment and maintenance of long-recognized qualities of steering *ease, safety, stability and performance*.

Ross invites discussion of any steering problem—manual or power.

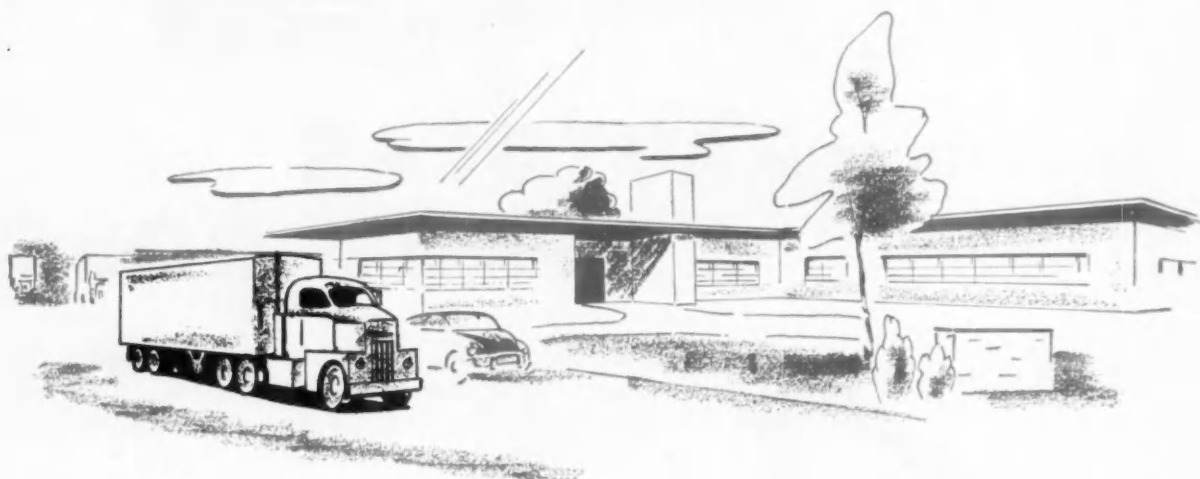
ROSS GEAR AND TOOL COMPANY, INC. • LAFAYETTE, INDIANA

STEERING



CAM & LEVER MANUAL . . . HYDRAPOWER INTEGRAL . . . HYDRAPOWER LINKAGE

Leading truck operators specify FULLER ROADRANGER® Transmissions



Leading truck operators throughout the nation prefer and *specify* Fuller Semi-Automatic ROADRANGER Transmissions for every type of trucking operation in all geographical areas. They have found by experience that the ROADRANGER ease of shifting, and the evenly spaced ratios, provide the flexibility of operation required to meet every varying condition of time, traffic and terrain.

Fuller ROADRANGERS permit the driver to select the right ratio at the right time. There's no more creeping up hills with engine lugging, lagging behind in traffic or sluggish acceleration after traffic jams on the straight-away . . . when the driver has complete control provided by the ROADRANGER easy single-lever shifting.

There is no time-wasting gear splitting . . . no waiting for automatic

actuation. Selective gear ratios are evenly spaced. Range shifts are pre-selected, automatic and synchronized. Average road speeds are higher . . . engines operate in the high horsepower range with greater fuel economy. Transmission weight is under cab; more cargo on payload axles.

Wherever Fuller ROADRANGERS are used, the results are faster trip time, lower fuel consumption, longer engine life, less driver fatigue . . . and greater profit.

Check with your local truck dealer now for the most efficient, easiest-shifting Fuller Transmission models to meet your specific trucking requirements. **SPECIFY ROADRANGER BY NAME.**

Fuller Manufacturing Company, Transmission Division, Kalamazoo, Michigan.



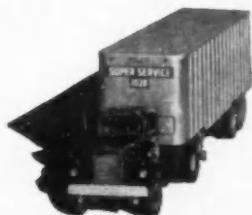
SPECTER FREIGHT SYSTEMS, INC., Chicago: "We have standardized on ROADRANGERS for better over-all fleet performance and less maintenance, resulting, of course, in a substantial dollar savings." Specter specifies both 8 and 10-speed ROADRANGERS.



T.I.M.E., INC., Lubbock, Texas: "It's T.I.M.E. for ROADRANGERS, one of our most important items in reduction of operating costs. For our operation, the Fuller 10-speed semi-automatic ROADRANGER is the best transmission on the market." T.I.M.E. saves time and money.



CONSOLIDATED FREIGHTWAYS, INC., Portland, Oregon: "You can't beat the ROADRANGER'S single stick operation. They keep road speed up on hills, and engine speed near the governor." Consolidated specifies 10-speed ROADRANGERS in its fleet.



SUPER SERVICE, Nashville: "We've hit an all-time low in transmission repair costs." ROADRANGER repairs are only .0003¢ (3/10 mill) per mile after an average of 210,176 miles on each of 172 transmissions in the Super Service fleet.



JACK COLE CO., Birmingham: Fuller 10-speed ROADRANGERS cut trip time 20%. Driver acceptance couldn't be better! "The Fuller ROADRANGER is the ideal answer for our entire operation." Cole runs non-stop to New York, Philadelphia and Chicago.



TEXAS-ARIZONA MOTOR FREIGHT LINES, INC., El Paso: On mountainous routes, and on the long, hot Great Desert region runs, T-A drivers rely on 10-speed ROADRANGERS to meet every varying condition of time, traffic and terrain . . . to maintain fast schedules.



SANTA FE TRAIL TRANSPORTATION CO., Wichita: Fuller 10-speed ROADRANGERS are the choice for

mountainous routes; 8-speed ROADRANGERS for heaviest Kansas and Texas schedules. Performance records show ROADRANGERS give best service at minimum cost.



BALTIMORE TRANSFER COMPANY, Baltimore: With annual fuel savings of \$126.36 per tractor through 8-speed ROADRANGERS, this large eastern operator and its subsidiary, Motor Freight Express, specify Fuller R-46 equipped tractors for all new purchases.



DELTA LINES, INC., San Francisco: Delta drivers like semi-automatic ROADRANGERS because they shift better on hills; the company likes them because need for 2-speed rear ends is eliminated, maintenance is low.



PACIFIC INTERMOUNTAIN EXPRESS, Oakland: "We can count on an average of 25 mph, 24 hours a day, 365 days a year, with Fuller 10-speed ROADRANGERS; and that includes all time for loading, road stops and maintenance," says P. I. E.



RISS & CO., INC., Kansas City: Fuller 10-speed ROADRANGERS put hp to work most efficiently over 40,000 miles in 22 states. On one order for 500 tractors, Riss specified Fuller 10-speed semi-automatic ROADRANGERS exclusively.



RINGSBY TRUCK LINES, INC., Denver: Ringsby specifies 10-speed ROADRANGERS for all tractors on its famous Rocket Service. Results of a carefully-watched test period were impressive . . . faster time, reduced driver strain, less maintenance, lower fuel consumption and longer engine life.



WATSON BROS., Omaha: "The ROADRANGER design allows us to operate tandem drive axles in both 50 and 55-foot states. Its performance adds up to longer engine life, easier shifting, faster speeds and greater fuel economy," says Watson Bros.



MASON AND DIXON LINES, Kingsport, Tenn.: A new fleet of 225 tractors is equipped with 8-speed semi-automatic ROADRANGERS. Drivers' reaction is excellent. Fuel savings, lower maintenance costs and longer service between major overhauls governed the choice of ROADRANGERS.



GARRETT FREIGHT LINES, Pocatello, Idaho: "There's less effort on various types of roads in the rugged western region, reduced maintenance with greater economy of upkeep, and better fuel mileage with our 10-speed ROADRANGER Transmissions."

Fleetman's

LIBRARY

FOR FREE ITEMS INCLUDED IN THIS REVIEW OF CURRENT MAINTENANCE
AND SAFETY PUBLICATIONS, USE READER SERVICE POSTCARD ON PAGE 52

Automobile Facts and Figures

Just made available, here is the 1956 version of the Automobile Manufacturers Assn.'s "Automobile Facts and Figures." The 36th edition of this valuable statistical workbook brings up to date a whole mass of automotive data. In almost all cases, 1955 figures are included. In some cases, 1956 figures have been incorporated. One chart, motor vehicle registrations, reaches back to 1895.

Subjects covered include vehicles—automobiles, trucks and buses, taxes, highways, gasoline, special fuels, employment, truck freight, production, parts and accessories, tires and many other headings. Several charts are broken down by states.

Circle L 1 on the postcard on page 52 for a free copy.

Driver Training Equipment Catalog

Safety directors will be interested in this catalog of driver testing and training equipment. Just published by American Automobile Assn., it is a consolidated presentation of equipment available from several manufacturers.

Included are reaction time, vision, traffic, mechanical testers and training aids. Brake test detonators and stanchions for driver testing are described. You can get a free copy by circling L 2 on the postcard.

Transit Fact Book

From American Transit Assn. comes this 1956 edition of the "Transit Fact Book"—annual summary of basic data and trends in the transit industry. In most cases, data is presented for 1955, 1954, 1953, 1952, 1951, 1950 and in five-year intervals for previous years.

Subjects covered include operating revenue, passenger revenue, passengers by population groups and type of service, employment and wages, equipment both new and in operation, route mileage and other similar headings.

For your free copy, circle L 3 on the postcard.

Fleet Wiring Manual

Now being distributed by United Motors Service Division, General Motors Corp., is this 21-page "Fleet Wiring Manual." In it are most of the answers to your questions about truck and bus wiring.

Sections of the well-illustrated book include how to select correct size wire and cable, quick wiring checks on the ignition circuit, quick checks for the lighting circuit, selecting terminals, tips on doing a better wiring job, ICC regulations and ATA specifications for vehicle lighting.

You can get a free copy by circling L 4 on the postcard on page 52.

Trucking Industry Career Kits

Three new kits containing special guidance materials on trucking industry careers have been released by American Trucking Assns. Material was developed to meet the needs of educators and students by ATA's National Committee on Education, the industry's coordinating group for educational matters.

Each comes in its own folder, measures 8½ x 11 in., is punched to fit a 3-ring notebook.

The kits cover the following subjects: "Opportunities in the Trucking Industry"—circle L 5 on the postcard, "Transportation courses in U. S. Colleges and Universities"—circle L 6 on the postcard, "Scholarship Programs of Motor Carriers and Allied Companies"—circle L 7 on the postcard.

Stud Size Wall Chart

Here is the latest revision of Champ-Items, Inc., wall chart showing standard and oversize studs for wheels and other purposes. It illustrates in actual size all popular studs. Below each illustration are correct size specifications. To get a free copy, circle L 8 on the postcard.

(FOR RECENT MANUFACTURERS' LITERATURE, SEE PAGE 312)

TIMKEN® bearings are tough—we make them from our own fine alloy steel



(Another reason why TIMKEN® bearings are first choice with truck manufacturers)

BECAUSE we make our own steel—America's only bearing manufacturer that does—we are always sure of getting the exact quality of steel we want for every Timken® bearing. Tough steel to take shock loads. Hard steel to shrug off wear.

For example, we use the direct-reading spectrometer shown at left to help us control precisely the chemical analysis of every melt of steel at the split instant the furnace is tapped. We're America's only bearing maker that can control bearing quality at every step, from molten steel through final bearing inspection. It's another important reason why Timken tapered roller bearings are first choice with truck manufacturers.







Only Timken tapered roller bearings give you *all* these advantages: (1) advanced design; (2) precision manufacture; (3) rigid quality control; (4) Timken fine alloy steel.

So, when you buy replacement bearings, make sure they're stamped with the trade-mark "Timken". For your free copy of "Timken Tapered Roller Bearings—Their Care and Maintenance", write Dept. JCC-11, The Timken Roller Bearing Company, Canton 6, O. Cable address: "TIMROSCO".

SINCE THEY'RE BEST WHEN THE TRUCK IS NEW, THEY'RE BEST FOR REPLACEMENT, TOO!



TIMKEN
TRADE-MARK REG. U. S. PAT. OFF.
TAPERED ROLLER BEARINGS

NOT JUST A BALL  NOT JUST A ROLLER  THE TIMKEN TAPERED ROLLER 
BEARING TAKES RADIAL  AND THRUST —LOADS OR ANY COMBINATION 

NEW

PRODUCTS

THE LATEST DEVELOPMENTS IN PARTS, ACCESSORIES, TOOLS AND EQUIPMENT FOR THE FLEET FIELD, DESCRIBED IN BRIEF FOR YOUR CONVENIENCE

P1. Anti-Freeze Tester

Darbo Enterprises, Madison, Wis., announces a pocket-size anti-freeze tester. Anti-freeze is tested under actual operating conditions with the "Cold Cup" by taking a thimbleful of anti-freeze solution from the radiator and put in a small metal cup on the tester. Then the solution is frozen, either with a two-inch sparklet type capsule containing CO₂ or a CO₂ fire extinguisher. The freezing point is read on a thermometer set in the Cold Cup.

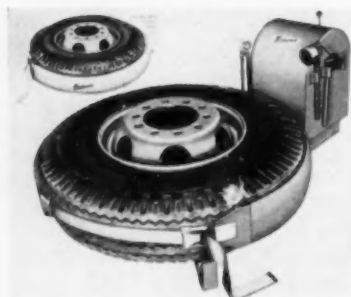
P2. Impact Wrench

The Black & Decker Mfg. Co., Towson, Md., announces a new electric impact wrench which weighs 7 lb and delivers 1800 high-intensity impacts per minute, cannot be stalled or overloaded. Power output is identical for operation either in forward or reverse. A specially-designed centrifugal fan and ventilating system give cool operating temperature at all times. Accessories can be attached to the tool with the aid of adaptors to perform a variety of other jobs.

P3. Anti-Freeze Tester

The Imperial Brass Mfg. Co., Chicago, has a new Model No. 556-TA universal anti-freeze tester, which is stated to be twice as easy to read. Not only are the protective figures in the new model larger, but they are further enlarged by a new magnifying slide calculator. Figures are hermetically sealed under glass to stay clean and readable.

The new model will make accurate tests even at temperatures in excess of 180 deg F.



P4. Bead Expander

Bishman Mfg. Co., Osseo, Minn., has a new one-man pneumatic bead expander for tubeless truck tires up to 12-24.5. Expander consists of a high grade rubber tube, reinforced on the outside by longitudinal cords to provide maximum inward expansion, and equipped with an extra strong nylon strap and airplane type safety buckle. Combination valve that opens and closes by a simple twist of the wrist makes inflating and deflating fast and easy. Full circle compression is said to be powerful enough to seat the beads of the stiffest tire quickly and safely.

P5. Bolt Clip

Pastushin Industries, Inc., Los Angeles, Cal., announces a steel fastener clip designed for sliding around the bolt of a wiring or hose clamp to hold tension during arranging and while screwing on the nut. Clip can be inserted around a clamp bolt with an easy motion to fasten or release the clamp's prongs for repeated adjustments while arranging wiring bundles and lines on jigboards, or when fastening hose. A simple rectangle of punched spring steel, the new clamp fastener is roughly the size of a man's fingernail. A slot extending halfway into the clip is engineered to snugly grip the inside thread diameter of the clamp's bolt. One end is bent upward for firm handling. It is fully effective as a washer, the company says, or may be taken off after use.

dependently, use the same spindle and tool set up. Boring tool is set to size directly from the pin with a micrometer adjustment for clearance or press fit. The feed system is hydraulic with fingertip control. Tools are lapped on a diamond lapping disc, and special jigs are included for tool sharpening.

P6. Pin Fitter

Cedar Rapids Engineering Co., Cedar Rapids, Iowa, has added a new pin fitting machine, Model No. RM-100, to the "Kwik-Way" line of engine reconditioning equipment. Rod and piston holding devices work in-



P7. Fuel Additive

Harflo Products, Ardsley, Pa., is marketing a new diesel fuel additive. Harflo says it is non-explosive, non-poisonous, non-corrosive, contains no sulphur and will not effect the cetane rating or efficiency of diesel fuel. Its purpose is to eliminate clogging of injectors, aid in proper complete combustion, eliminate hard starting, pounding, excessive smoking, keep fuel tank, lines and filters free of gum, sludge and wax and eliminate rust and corrosion.

P9. Lift Truck Radio

Radio Corp. of America, Camden, N. J., has announced a line of two-way radio equipment for industrial applications. This new mobile equipment can be used with either gasoline or electric powered materials handling vehicles. Radio units feature 6 to 12-volt convertibility for gasoline vehicles, and convenient 24, 32, 36-volt conversion for electric trucks. Controls, loudspeaker and microphone are mounted in front of driver.

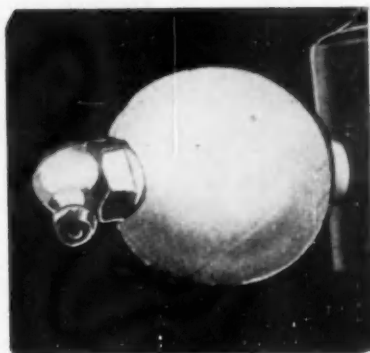
P12. Lube Dispenser

Coolant Equipment Corp., Verona, Wis., announces a drum handler and lube dispenser. It's portable, handles drums weighing up to 1000 lb and permits transferral of lubricating oils directly from the drum. Adjustable clamp grips chime of all standard 30 and 55 gal open or closed end drums



P8. Lube Reservoir

Automatic Lubrication Co., Detroit, announces a lubricant reservoir to replace grease fittings. Automatic says it permits greatly extended intervals between lube jobs. Reservoir feeds grease to bearing in a manner similar to a ball point pen. Reducers and adapters (including 45 and 90 deg angles) are available. They can be used on kingpins, shackles, tandem suspensions, steering spindles, trunion bearings and other chassis lube points.



P10. Shop Heaters

Carrier Corp., Syracuse, N. Y., has a new line of shop space heaters. It includes 72 capacities and coil arrangements in six different model sizes. Output of the full line ranges from 47,000 to nearly 2,000,000 Btu's and from 1500 to 32,000 cfm. Versatility of the equipment is made possible by six coil capacities in each of the six units. These are available in either distributing or U-bend tube versions. Units are designed to permit a wide choice of installations.

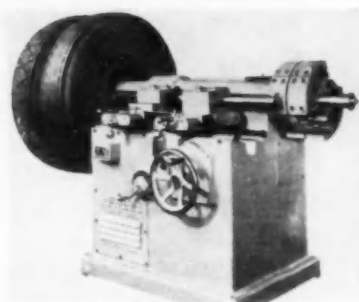
or drums with fully removable head for transporting in an upright position. Hydraulic pump and ram lifts loads to convenient height for transporting. Dispenser is equipped with a hand-operated 10 gpm one-way pump for transferring lubricating oils directly from the drum to vehicles. Gallon stroke, meters and two-way pumps as well as electrically operated models may be specified. Also available without pump.

P13. Brake Signal

Lifeguard Products, Inc., Sharon, Pa., is introducing an automatic device to warn of lack of fluid and pressure in the master cylinder of trucks. It fastens to the firewall and flashes a red warning light on the dash when fluid reaches the danger point. It is connected to the master cylinder with a length of copper tubing. As fluid in the master cylinder decreases it is replenished from the reserve supply in the "Lifeguard." A float in the "Lifeguard" establishes electrical contact when the fluid has reached a low but still safe point and lights the warning lamp on the dash.

P11. Heater Tubing

Everhot Products Co., Chicago, is introducing aluminum heater tubing. According to Everhot, the tubing is easily workable without use of tools, shapes to fit any connection, bends more easily than copper tubing. "Alumiflex" is available in 50-ft coils, as well as in a compact kit containing 20 pre-curved heater tubes of various shapes and lengths, plus connecting parts. This assortment is said to be adequate to handle heater hose replacement on any car or truck.



P14. Drum Lathe

Star Machine & Tool Co., Minneapolis, Minn., is now producing the "Transfermatic" double spindle brake drum lathe. The lathe simultaneously bores brake drums on one spindle and turns brake linings on the other spindle. Linings are automatically turned to the exact diameter of the newly refaced drums.

P15. Automotive Paint

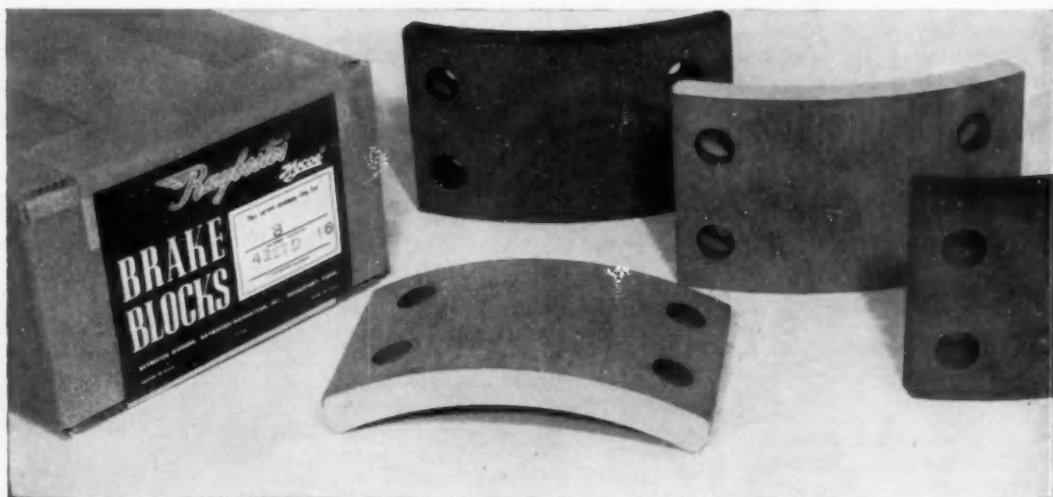
Martin-Senour Paint Co., Chicago, announces a new automotive refinishing

(TURN TO PAGE 56, PLEASE)

Raybestos®

QUALITY

will give you lower cost-per-mile



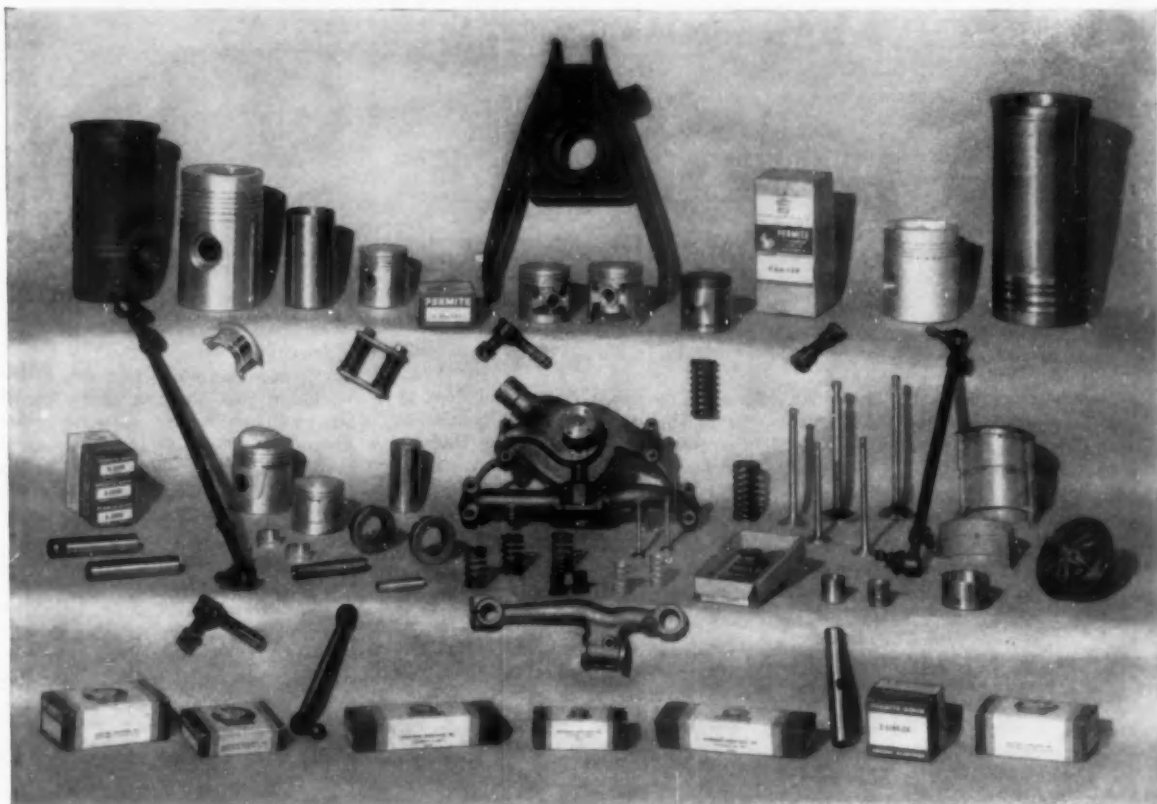
Yes, you will have lower operating costs because of the quality, uniformity and performance of these famous Raybestos products • **Brake Blocks** • **PGT Sets** • **Clutch Facings** • **V Drive Plates** • **Fan Belts** • **Radiator Hose**. To learn more about the savings Raybestos can give you, ask your Jobber Salesman about the unique Raybestos Fleet Engineering Plan.

Raybestos®

AMERICA'S BIGGEST SELLING BRAKE LINING



RAYBESTOS DIVISION of Raybestos-Manhattan, Inc., BRIDGEPORT, CONN.
RAYBESTOS-MANHATTAN, INC., Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hose • Industrial Rubber, Engineered Plastic, and Sintered Metal Products • Rubber Covered Equipment • Asbestos Textiles • Laundry Pads and Covers • Packings • Abrasive and Diamond Wheels • Bowling Balls



Valves
Valve Guides
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Pistons
Piston Pins
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Sleeve Assemblies
Engine Bearings
Water Pumps
Ball Joint Suspension
King Bolt Sets
Tie-Rod Ends
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EVERY part is there in the PERMITE line

Yes, with Permite you have all needed parts in *one* line! The valves, the pistons, the pins, the bearings, the water pumps, the bolts, the suspension parts, the spring shackles . . . all the parts you need for engine or chassis overhaul are supplied in the complete Permite Line of Original Equipment Parts.

And Permite's greatly expanded production and service facilities in support of the Permite nation-wide distribution system make Permite Parts always AVAILABLE—when you want them—for all makes and models of cars, trucks, buses, tractors.

Just phone your nearby Permite Distributor.

ALUMINUM INDUSTRIES INC., Cincinnati 11, Ohio
original equipment
Permite parts
the complete engine and chassis line

NEW

PRODUCTS

THE LATEST DEVELOPMENTS IN PARTS, ACCESSORIES, TOOLS AND EQUIPMENT FOR THE FLEET FIELD, DESCRIBED IN BRIEF FOR YOUR CONVENIENCE

Continued from Page 53

ing paint called "Dythol". The finish says Martin-Senour, combines the fast drying characteristics of lacquer—20 to 30 min.—and the flow, build, and gloss of enamel. It takes a low pressure spray—40 to 45 lb. There is less spray dust because of this, the dust is non-sticking, and can easily be brushed off the arms and clothes of the painter.

P16. Electric Drill

The Black & Decker Mfg. Co., Towson, Md., announces a new general service portable electric $\frac{1}{4}$ -in. drill with heavy-duty "Holgun" features. It is equipped with anti-friction ball bearings that are grease-sealed for life, weighs 3 $\frac{1}{4}$ lb.

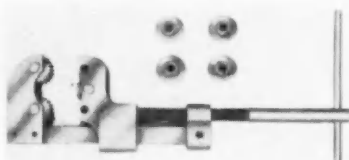
P17. Reefer Flooring

Revere Copper and Brass, Inc., New York City, has developed aluminum floor sections to meet the demand for increased air circulation under the cargo in reefer truck and trailer bodies. Height of the new "Hi-Air-Flo" sections has been increased $\frac{1}{4}$ to 1 $\frac{1}{2}$ in., which provides 60 per cent more air circulation under the cargo with only 30 per cent increase in floor board height, says Revere. Special interlocking device when properly in-

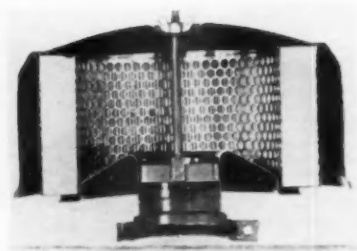
stalled insures a water-tight floor by permitting the bolting of boards to the subframe without going through the floor from inside the body. Floor includes multi-end-plug castings for fast and secure sealing of the ends of floor boards and flashing.

P18. Muffler Tool

Ernest Holmes Co., Chattanooga, Tenn., has developed a new tool for quick, easy removal of mufflers and tail pipes. Tool provides a set of



four cutting wheels which are interchangeable with a set of three expander rollers. The four cutting wheels are used when cutting the muffler from the exhaust pipe and tail pipe by simply swinging the tool back and forth a few times until cut free. To loosen and separate frozen joints on clamp type mufflers, the cutting wheels are replaced with the three expander rollers, and placed around the hub of the muffler. Pressure is then applied to the rollers.

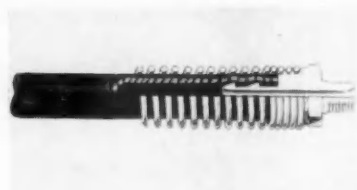


P19. Air Filter

Purolator Products, Inc., Rahway, N. J., is introducing a dry-type air filter capable of screening out dirt particles measured in microns. Filter works without the use of baffles or oil and has a life expectancy of around 15,000 miles under normal conditions. Filter is cylindrical in shape, contains an accordion-pleated strip of special filtering paper offering up to 5725 sq. in. of filtering surfaces on the large size element. Purolator recommends that the element be cleaned every 5000 miles, either by tapping it clean or by spraying it with an air jet. The company further recommends replacement of the filter element every 15,000 miles.

P20. Air Brake Hose

Aeroquip Corp., Jackson, Mich., is offering a new truck air brake hose, No. 2550, with detachable, reusable socketless fittings. Designed to meet SAE and ICC specifications, the hose is used for tractor-trailer, axle brake chamber, and tractor service line connections. The socketless fittings are

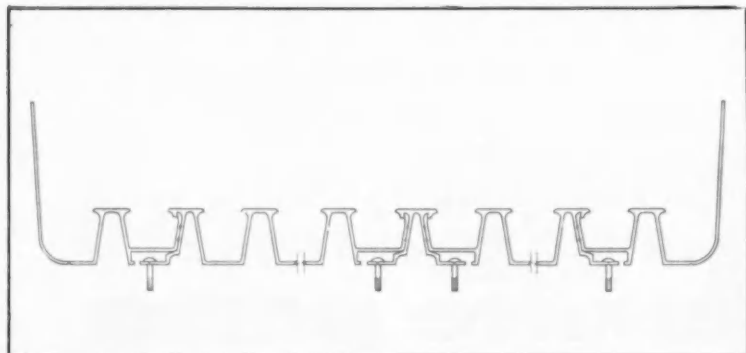


designed to mate with any standard connection, and are available with male pipe or swivel. Gladhand connections are also available.

P21. Auxiliary Engine

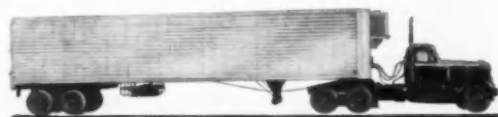
Wisconsin Motor Corp., Milwaukee, Wis., announces its Model No. VH4, a 30 hp, 4-cyl V-type air-cooled engine designed to fill the gap which has existed between the 25 hp Model No. VF4 and the 36 hp Model No. VG4D. It operates at a maximum speed of 2800 rpm, can be adapted to operate on kerosene, natural gas,

(TURN TO PAGE 306, PLEASE)





NO ENGINE VARNISH HERE



You *can* prevent harmful engine varnish, sludge, and carbon deposits in your Diesel or gasoline engines! Switch to one of the Sinclair **TENOL**® Motor Oils . . . they're specially engineered to combat the effects of high temperature, overloading, and continuous stop-and-go service. Experience has shown that these fine quality oils keep equipment on the job longer — with less wear and fewer repairs!

For positive protection and true economy, use the **TENOL** grade best suited to your service requirements: —

SINCLAIR TENOL — for severe duty in gasoline engines, and moderate duty in Diesels.

SINCLAIR SUPER TENOL — for the more-severe-than-usual operating conditions in both gasoline and Diesel engines.

SINCLAIR TENOL EXTRA — for extremely severe operating conditions in Diesel engines.

Refill now with Sinclair **TENOL** Motor Oils. Contact your local Sinclair Representative or write Sinclair Refining Company, Technical Service Division, 600 Fifth Avenue, New York 20, N. Y. *There's no obligation.*

SINCLAIR

TENOL MOTOR OILS

Now for every job there's a modern

NEW! BLACKHAWK RLS OIL

prolongs the life of any hydraulic jack. Ask your Blackhawk jobber for facts!

Discover why it pays to STANDARDIZE ON BLACKHAWK

You're looking at the big new line-up of Blackhawk Hydraulic Jacks — and every one of them now has the service-proved features which enable them to meet today's increased weights, greater lifting spans and broader jack applications. No blocking up and unloading on jack jobs — no special high range jacks needed! Just bank on Blackhawk for the *right* model to handle any vehicle or shop job. Buy Blackhawk Jacks from your jobber at *new low, low prices!*

An interesting desk-top demonstration will be made at your request — to prove why you'll be *way ahead* by always buying Blackhawk Hydraulic Jacks. Your Blackhawk jobber will be glad to give you this eye-opening "Jack-In-a-Pak" demonstration of why a Blackhawk "outlives the truck it lifts."

BLACKHAWK

A Product of
BLACKHAWK
MFG. COMPANY Dept. J-1111
Milwaukee 46, Wis.

NEW

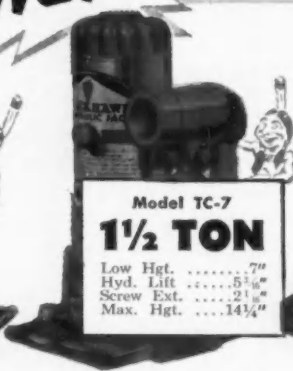


Model J-19

1½ TON

Coll. Hgt. 21 1/2"
Hyd. Lift 15"
Low Toe Hgt. ... 3 3/4"
Adj. Hgt. 14 1/2"
Max. Hgt. 40 1/2"

Here's the "Brave" — today's most practical bumper jack! Lifts all cars. Offers many important exclusives!



Model TC-7

1½ TON

Low Hgt. 7"
Hyd. Lift 5 1/2"
Screw Ext. 21"
Max. Hgt. 14 1/4"

The rugged new "Warrior" is big favorite among fleets ... for pick-up trucks and other light vehicles.



Model BA-8.5

3 TON

Low Hgt. 8 1/2"
Hyd. Lift 5 7/8"
Screw Ext. 3 1/2"
Max. Hgt. 18"

The popular choice for light buses — and for general service around the service shop.



Model AA-8.5

5 TON

Low Hgt. 9"
Hyd. Lift 6 1/4"
Screw Ext. 4 1/2"
Max. Hgt. 19 1/4"

The medium-duty model. For shop or road. Like all Blackhawks, has a wide margin of safety.

and vehicle ... Blackhawk Jack!

Here's why Blackhawk Jacks
LAST LONGER
and are so
TROUBLE-FREE

Take a look at this "Jack Box Score" and you'll spot many of the reasons why Blackhawk is the big favorite among fleets that keep records on jacks.

These and many other features add up to give you more for your money. Remember — there's a big difference in jacks — and today it costs no more (or even less) to own the best . . . and that's a Blackhawk!

JACK BOX SCORE . . . among the three jack lines most sold to fleets		BLACK-HAWK	LINE X	LINE Z
	MACHINED STEM & PUMP HOUSING — Guarantees longer life because pump cups operate within a smooth micro-finish steel cylinder (NOT in a hole bored in the base casting). Pump-on-side design allows load to center on base.	YES	NO	NO
	MALLEABLE IRON TOP CAP — Greater strength to withstand off-center loading — gives rigidity to entire jack — prevents leakage.	YES	NO	YES
	CROSS-MILLED HEAT-TREATED SADDLE — A safe, sure grip on greasy, icy axles at all times. Teeth stay sharp as a hound's tooth — never wear smooth like ordinary saddles.	YES	NO	NO
	REPLACEABLE PUMP ASSEMBLY — The parts that get the most wear. Complete cost only \$2.60 — can be replaced in the field with ordinary wrench. Screws in like a light bulb. (Pump is not part of a costly base casting.)	YES	NO	NO
	68% INTERCHANGEABILITY OF WORKING PARTS — Applies to all models 1½ to 20 tons. Assures lower maintenance and repair costs — faster service if repairs should become necessary.	YES	NO	NO



Model CB-9
8 TON
Low Hgt.9"
Hyd. Lift6½"
Screw Ext.4½"
Max. Hgt.19¾"

The leader for heavy trucks, trailers and buses. Most popular tool box jack ever built!



Model D-8.7
12 TON
Low Hgt.8½"
Hyd. Lift5½"
Screw Ext.4½"
Max. Hgt.18¾"

For emergency road service on extra-heavy buses and trucks. The most widely used shop jack.



Model EA-11
20 TON
Low Hgt.11"
Hyd. Lift6½"
Screw Ext.None
Max. Hgt.17½"

For grueling shop service on trucks, buses and trailers. Standard high lift model also available (lifts to 49½").

GMC . . .

Describes '57 Light and Medium Duty Models

**New V-8 with 206 hp, 347 cu in. displacement,
7.8 to 1 compression ratio heads engine choice**



▼ GMC LAST month released details on its light and medium duty models for 1957, said features of its new heavy-duty trucks (including air suspension models) would be announced later.

A new V-8 and two 6-cyl engines power the new light and medium duty line. The V-8 has 347-cu in. displacement and 206 gross hp available throughout the entire light and medium-duty range. Other features include a 7.8-1 compression ratio, larger main bearings, heavier and improved design pistons, new hard faced steel exhaust valves (on Models Nos. 350 and 370), new dual chrome plated steel expander backed oil control piston ring for oil economy and new water pump and fan drive for minimum belt slippage and maximum cooling.

New V-8 has inverted design distributor, giving accessibility to the distributor for point opening adjustment while engine is running. Sixty amp-hr, 9-plate, 12 volt battery is used on all 100-370 models with V-8 engines.

Through use of 1½-in. down-draft carburetor, power of the 270-cu in. 6-cyl engine in package delivery Model Nos. PM 150 and PM 250 is increased from 120 to 130 gross hp.

Features

New air-pak brake option is offered on Model Nos. F370 and F370-8. Safety braking valves for air-pak system as required by ICC regulations are available as options.

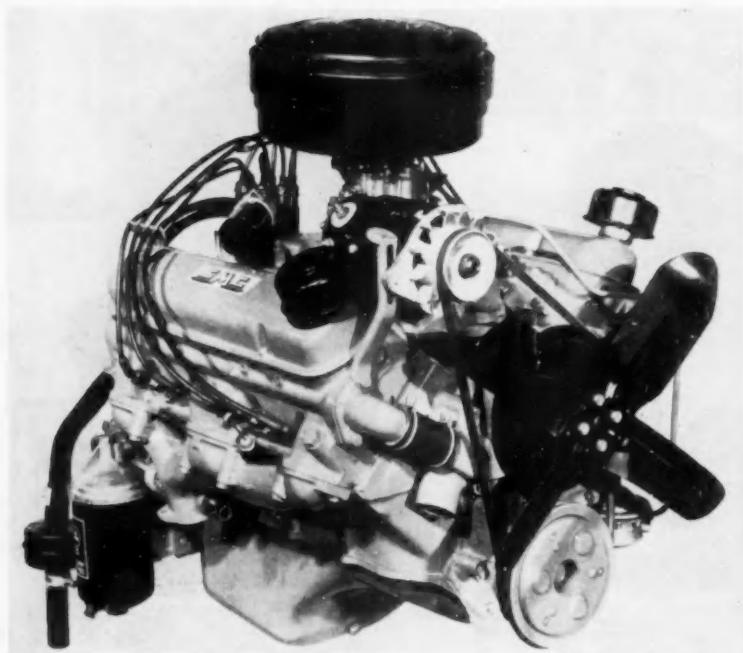
Larger, stronger propeller shaft universal joints are used in all 150 and 350 series models. Model

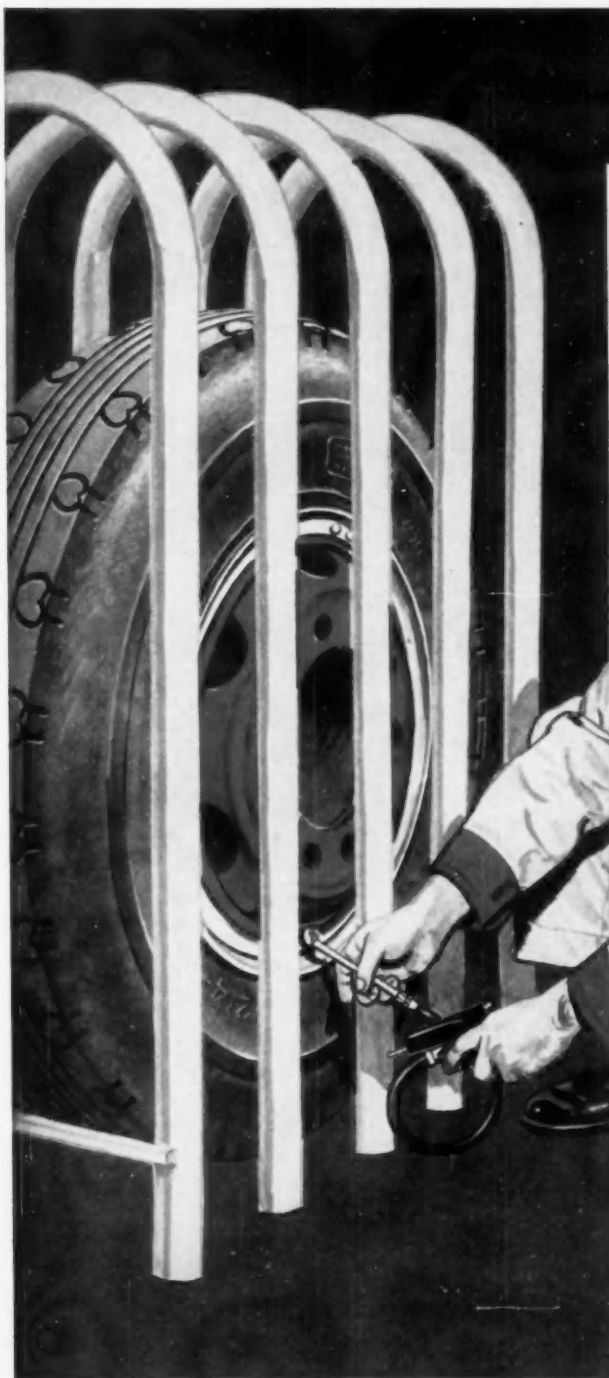
(TURN TO PAGE 114, PLEASE)

GMC Engine Specifications for Light and Medium Duty Trucks

	V-8	6-Cyl	6-Cyl
Disp. (cu in.)	347	269.5	269.5
Bore & Stroke (in.)	3 15/16 x 3 39/64	3 25/32 x 4	3 25/32 x 4
Gross Hp (@ rpm)	206 @ 4400	130 @ 3600	140 @ 3600
Net Hp (@ rpm)	182 @ 3600	121 @ 3400	127 @ 3400
Gross Torque (lb-ft @ rpm)	317 @ 2000-2200	238 @ 1200-2000	246 @ 1400-2000
Net Torque (lb-ft @ rpm)	307 @ 2000	233 @ 1200	241 @ 1400
Compression Ratio	7.8-1	7.75-1	7.75-1

Details on this new V-8 are given in first column of chart above





A. SCHRADER'S SON
Division of Scovill Manufacturing Company, Incorporated
470 Vanderbilt Avenue, Brooklyn 38, N. Y.

Schrader
REG. U. S. PAT. OFF.

COMMERCIAL CAR JOURNAL, November, 1956

TUBE OR TUBELESS... Anti-flat insurance pays

Every flat on the road shows up in red ink. Many fleets, however, cut costly highway flats to a minimum by gauging tire pressures each day. Slow leaks are caught in the shop before tires go flat! That's where they're easy to fix.

This money-saving procedure works better with Schrader equipment. Air lines operate better and faster with Schrader Chucks, Couplers, Chuck Gauges and Accessories. Accuracy of all equipment can be certified quickly with a Schrader 8106B Truest Special Gauge, and 7188BH All-Purpose Service Gauges are superior for all tire inspections. Always specify genuine Schrader Tire Valves, Cores and Caps guaranteed airtight even at 250 pounds pressure!

Schrader products important
to best, safest tire maintenance!



8106B for checking all other gauges



7188BH All-Purpose Service Gauge



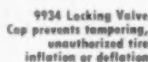
New 3650 Type Chuck Gauge



7611
Heat-Resisting
Core



7612
Heat-Resisting
Cap



9934 Locking Valve
Cap prevents tampering,
unauthorized tire
inflation or deflation



9934A Tool:
This special
unlocking tool
is kept in
your shop



FIRST NAME IN THE SAFEST TIRE VALVES
FOR ORIGINAL EQUIPMENT AND REPLACEMENT

CHEVROLET . . .

Expands for '57, Has 88 Models

New line also includes three new V-8 engines—210, 175 and 160 hp



From its light weight models (above) to its 50,000 lb GCW tractor (left), Chevrolet's 1957 line includes 88 models, 22 wheelbases and 8 engines

VCHEVROLET for 1957 has expanded its line to 88 models on 22 different wheelbases, widest range in the maker's history. It's also offering three new V-8 engines and two new forward control models to provide greater hauling capacity for bottled beverages, dairy products and similar delivery operations.

Selection of truck engines for 1957 includes five V-8's and three 6-cyl models for a total of eight—two more than last year. One new V-8 is the 175 hp "Super Taskmaster." A 283-cu in. model, it is offered as optional equipment on a wide range of the company's 43 medium and 21 heavy-duty

models. Standard equipment on many of the 1957 models is the new "Taskmaster" V-8 which has 160 hp. Both engines have 8-1 compression ratios. The optional higher horsepower is attained through a 4-barrel carburetor, dual exhaust system and, special intake manifold.

High Horsepower V-8

The third new engine, a high-torque 322-cu in. V-8 called the "Super Loadmaster," delivers 210 hp—15 hp higher than any previous Chevrolet truck. Equipped with 4-barrel carburetor and dual exhaust, the engine is available as an option on the larger heavy-

duty models, which have maximum ratings of 32,000 lb GVW and 50,000 lb GCW.

Offered as standard equipment on the larger heavy-duty models is the 195-hp "Loadmaster" V-8 introduced last year. Along with three new V-8's, this power plant features specially treated score-resistant connecting rod and front and intermediate main bearings. Fifth V-8 is a 155-hp model. In addition, wide selection of passenger car engines is available on the sedan delivery.

Eight Transmissions

Teamed with the engines are eight truck transmissions, including an automatic drive for almost every model. Optional on bigger trucks and school buses is Chevrolet's 6-speed "Powermatic" transmission with a built-in retarding (TURN TO PAGE 326, PLEASE)

Work-Horse

for dependability...



U.S. AXLE SHAFTS

Carrying the most varied loads, U.S. Axle Shafts have long proved their *extra stamina* in emergencies as well as everyday highway stresses. U.S. Axles, made from hardened alloy steels, are tougher—safer—surer. Whether yours are overland giant or fly-weight city trucks, depend on U.S. Axles to "deliver the goods".

Depend on your U. S. AXLE JOBBER for the exact U. S. Axle Shaft to fit your vehicles!



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"THE WORLD TURNS ON U. S. AXLES"



DODGE . . .

It's the "K" Series in '57



Six-wheeler with 65,000 lb GCW rating and "across-the-board" horsepower increases are '57 highlights

▼ FOR 1957, Chrysler's Dodge Division is offering the "K" Series truck line. Besides increased GVW and GCW ratings, the line features higher horsepower V-8 engines. Front end styling has been improved by the introduction of a new grille and grille panel, new headlamps and parking lights, and front bumpers.

A new 900 6-wheeler in the 1957 line has increased power and torque for a wide range of highway and off-the-road operations. This model is offered in wheel-



Two interesting features of the "K" series are (top) full-opening, two-position—45 and 90 deg—"alligator" hoods, and (bottom) push button controlled, 3-speed automatic transmission optional on five "K" series models

bases of 144, 156, 174 and 192 in., and a 38,000 lb capacity front axle is available. Maximum GVW is 46,000 lb and maximum GCW is 65,000 lb.

"Power-Dome" V-8 engines have higher horsepower for the entire

group of models. Largest of these, the 345-cu in. displacement engine with twin carburetors, is standard on 900 models, optional on 700 and 800 models with single carburetor. The 331-cu in. engine with twin carburetion is standard on all 800 models, while the same engine with a single carburetor is standard on 700 models.

Six-cylinder engines are available as before on 100-200-300-400-500-600 conventional models; 300-500 4 wheel drive models; 300-400 forward control; and 400-500-600-school bus models. On 100-200 300 conventional and 300-400 forward control models, the 230-cu in. engine has its rating upped to 120 hp (115 hp last year) and torque from 201 to 202 lb ft. On the 300 4-wheel models, the same engine has horsepower upped from 111-113.

Pushbutton Transmission

Three-speed automatic transmissions with pushbutton control are available as optional equipment on 100, 200, and 300 models, as well as on 300 and 400 forward control models. Heavier frames are used on 200 and conventional 600 models. An Orscheln hand brake lever is standard on all models except the 300 4-wheel drive. Over center lever action makes it easier to set and release. Brake adjustment due to normal brake wear is made by the driver. Turning the knurled knob at the end of the lever takes up the slack in the cable.

Three-speed auxiliary transmissions are available in all tandem and conventional 700 through 900 models. Overdrive is available in conventional 100 models at extra

(TURN TO PAGE 322, PLEASE)



You Be The Judge!

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Once Again in Front of the Field with the
Most Advanced Engineering Design

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I.C.C.
REQUIREMENTS
193.43

DEFINITELY
MEETS AND EXCEEDS THE
NEW MODIFIED
"BREAKAWAY" REQUIREMENTS
OF I.C.C. SPECIFICATIONS 193.43

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DASH CONTROL VALVE

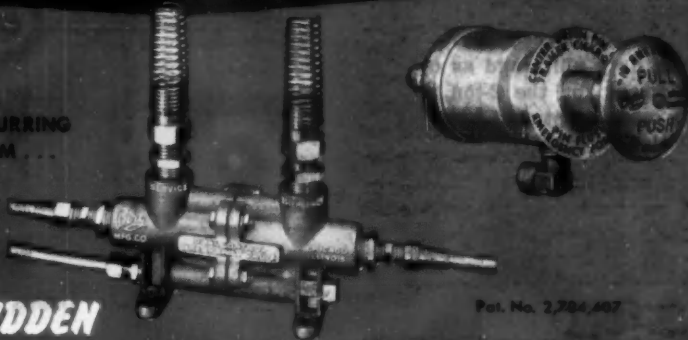
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THE TRACTOR AIR BRAKE SYSTEM
AGAINST LOSS OF PRESSURE OCCURRING
IN THE TRAILER AIR BRAKE SYSTEM ...

★ AUTOMATICALLY

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★ CANNOT BE OVERRIDDEN



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VERTERS, LIGHTING WIRE AND CABLES, LOOM, AIR AND VACUUM BRAKE VALVES AND
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INDICATORS AND POWER BRAKE AND COMPONENT PARTS, SMO-GLO LAMPS.

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STUDEBAKER . . .

Goes to 19,000 lb GVW in '57

Horsepower and torque ratings are increased in new line. New tractor models feature 102-in. dimension

STUDEBAKER for 1957 has expanded its line to include models up to 19,000 lb GVW and engine horsepower up to 192 using an optional power pack.

Four engines will be offered for Studebaker trucks in 1957. The 250-cu in., 170-hp V-8 will be brought to the 1/2 and 3/4-ton models for the first time, and a new engine, the 289-cu in., 182-hp V-8 will be introduced for the new heavy duty units and as optional equipment for the 2-ton medium duty model. Optional 4-barrel carburetion increases horsepower on these two V-8 engines to 178 and 192 respectively. Two engines, 6-cyl., are available in the light duty models, the 185-cu in., 92-hp and the 245-cu in., 106-hp models.

Higher Torque

Torque ratings are 250 ft lb for the new 259-cu in. V-8 engine at 2600 rpm, an increase of 24 per cent over last year's model. The new 289-cu in. V-8 engine is rated at 288 ft lb of torque at 2600 rpm. Compression ratio for all Studebaker truck engines is 7.5 to 1.

A special "premium engine package" including many of the standard heavy duty features of the big 289-cu in. engine will be available equipment with the 245-cu in., 6-cyl engine or the 259-cu



Studebaker's 1957 Line

Model	Nominal Rating (tons)	Wheelbase (in.)	GVW (lb)	Engine Size (cu in.)	Type	Hp
3E5.....	1/2	112, 122	4,800	185.6	6-cyl	92
3E6.....	1/2	112, 122	5,000	245.6	6-cyl	106
3E7.....	1/2	112, 122	5,000	259.2	V-8	170
3E-11.....	3/4	122	7,000	245.6	6-cyl	106
3E12.....	3/4	122	7,000	259.2	V-8	170
3E13.....	1	131	10,000	259.2	V-8	178 ¹
3E14.....	1	131	10,000	245.6	6-cyl	106
3E28.....	1 1/2	131, 155	14,000	259.2	V-8	170
3E38.....	2	131, 155, 171, 195	16,000-17,000	259.2	V-8	178 ¹
3E40.....	2 ³	131, 155, 171, 195	18,000-19,000	289 ²	V-8	182
						192 ¹

¹ With optional power pack.

² Optional.

³ Heavy duty.

in. V-8. The package includes heavy duty inlet and exhaust valves, heavy duty exhaust valve springs and rotary cap kit, chrome plated top compression piston rings and, on the 259-cu in. engine, heavy duty aluminum timing gear, heavy duty connecting rod

bearings and crankshaft bearings, and a 1-qt oil bath air cleaner.

(CCJ's Detroit Editor adds that there is no basis for reports that Studebaker plans to use Daimler-Benz diesel engines in its trucks in the immediate future.)

(TURN TO PAGE 336, PLEASE)



Ever think of *Snap-on*^{*} as your "extra" employee at no extra cost?

Chances are you've seen a *Snap-on* man during the past few weeks. If you've been in the shop during one of his regular visits, you've watched him in action. More than likely you've heard some of the kidding he takes from your mechanics. But, you've seen them buy *Snap-on* tools.

A mechanic doesn't kid about the tools he uses — he depends on them for a living. That's why he welcomes the *Snap-on* man whenever this tool expert calls. The tools he sells, his wide experience, and his training in tool use often break

work bottlenecks, make "beating the rate" a cinch. It's like having an extra man on the payroll ... at no extra cost to you.

The more timesaving, money-making *Snap-on* tools there are in your shop, the easier it is for your mechanics to turn out the kind of work that means more customers, more profits. The next time your *Snap-on* man calls, ask him about the plan by which you can help more of your employees own and use *Snap-on* tools.

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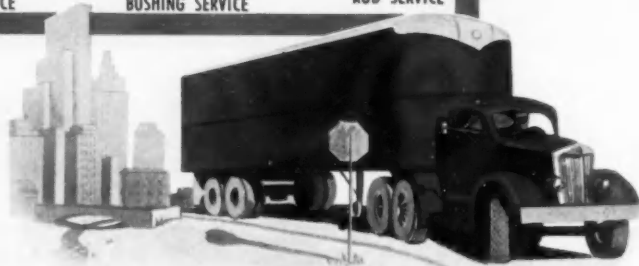
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PISTON RINGS

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AN INDEX OF PRODUCTS ADVERTISED IN THIS ISSUE

When you want to know who makes a given item, use this section first. It's a handy guide to detailed information about the hundreds of products advertised in this issue. Using the page number references, you can generally find detailed description—frequently illustrations—of the products you're after.

This index does not cover all products manufactured by the companies advertising in this issue. However, every effort has been made to include all products specifically advertised. Listings in this section are not a part of the advertisers' contracts, and no allowance will be made for errors or omissions. General listings begin on page 77.

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Aluminum Industries, Inc.	55
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product directory

As in previous years, literally thousands of changes have been made in this year's directory so as to be sure addresses are correct and the sources listed are currently offering the products you want. Generally, products are listed by basic name, i.e. **CHARGERS, Battery**. In cases where a compound name is more common, the product is listed that way, i.e. **SPARK PLUGS**. "Too late to classify" listings have been added at the end of the directory. If you can't find what you want, we'll be glad to

help—just drop us a line. Generally, listings are limited to national distributors, and the address of your local supplier can be had by writing the maker. Keep a local source list, save time in an emergency. (Don't forget most vehicle manufacturers stock a line of parts for their vehicles.) A reminder: The advertisements in this issue can give you detailed information on particular products. To locate the one you are interested in, use the handy guide beginning on page 69.

ABRASIVES, See Sandpaper; Discs, Abrasive; Wheels, Grinding
ABSORBENTS, See Cleaners, Floor
ACCELEROMETERS, See Meters, Brake Testing
ACCOUNTING MACHINES, See Record Machines, Accounting
ACETYLENE, See Gas, Acetylene
ADDITIVES, CRANKCASE, See Compounds, Crankcase Sludge Removing
ALTERNATORS, See Generators

ADJUSTERS, Brake

Brakemaster Corp., 4603 W. Roosevelt Rd., Chicago 50, Ill.

ADJUSTERS, Tire Chain

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.
Campbell Chain Co., York, Pa.
Crown Products Co., Ralston, Neb.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grayson Tool Co., 1412 W. 2nd St., Hastings, Neb.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nauman Mfg. Corp., R. F., 525 Michigan Ave., Buffalo 3, N. Y.
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.
Raymond Mfg. Co., Div. of Associated Spring Corp., 224 S. Center St., Cory, Pa.
Republic Steel Corp., Bolt & Chain Div., 1970 Carter Rd., Cleveland 13, Ohio.
Round Woodhouse Chain & Mfg. Co., Third St., Trenton 7, N. J.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Tingley Rubber Corp., 903 Ross St., Rahway, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Co., 575 Madison Ave., N. Y. 22, N. Y.

AIR CLEANERS, See Cleaners, Air
AIR COMPRESSORS, See Compressors, Air

AIR CONDITIONERS

Ellis & Watts Products Co., P. O. Box 33, Cincinnati 36, Ohio. (Body.)
Era Tool and Engineering Co., 9240 Belmont Ave., Franklin Park, Ill.
Frigikar Corp., 1602 Cochran, Dallas, Texas.
Frigiquip Corp., 3724 North May Ave., P. O. Box 7205, Oklahoma City, Okla.
Kysor Heater Co., Cadillac, Mich.
National Gas Equipment Co., P. O. Box 122, Denison, Texas.
Novi Equipment Co., Novi, Mich.

AIR-CONDITIONERS, Cab

Bonsor-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.
Capitol Refrigeration & Mfg. Co., 3922 Kullock Dr., Dallas 16, Tex.
Frigikar Corp., 1602 Cochran St., Dallas, Texas.
G & S Mfg. Co., 2824 E. Washington St., Phoenix, Ariz.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Kysor Heater Co., Haynes St., Cadillac, Mich.
Metal Products Engineering Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.
Spitzka Mfg. Co., 235 Colfax St., North Sacramento, Calif.
Thermador Electrical Mfg. Co., 519 S. District Blvd., Los Angeles 22, Calif.

AIR CONDITIONING UNITS, Truck, Bus and Trailer

(See also Coolers, Truck, Bus and Trailer)
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio.

Ellis & Watts Products, Inc., P. O. Box 33, Cincinnati 36, Ohio.
Frigidaire Div. General Motors Corp., 800 Taylor St., Dayton, Ohio.
HaDees Heater Div. of Gabriel Co., 1911 Harrison Ave., Rockford, Ill.
Keco Industries, Inc., 2832 Spring Grove Ave., Cincinnati 26, Ohio.
McGraw Electric Co., 5201 W. 65th St., Chicago 38, Ill.

AIR COOLERS

Bonsor-Western Corp., 3055 East 12th St., Los Angeles 23, Calif.
G & S Mfg. Co., 2824 East Washington St., Phoenix, Ariz.
Metal Products Engineering, Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.
Spitzka Mfg. Co., 235 Cedar St., North Sacramento, Calif.

ALARMS, CARBON MONOXIDE, See Indicators, Carbon Monoxide

ALARMS, Truck and Cargo Protection

Auto-Matic Alarm Systems, 2311 Indiana Ave., Chicago, Ill.
Babaco Alarm Systems, Inc., 733 Washington St., New York, N. Y.
Certified Burglar Alarm Systems, 1418 W. Augusta Blvd., Chicago, Ill.
Ever-Guard Automatic Burglar Alarm Co., Inc., 404 W. 53rd St., New York, N. Y.
The Tire Mart, Inc., National Fleet Service, 419 Fourth Ave., New York 16, N. Y. (Tire Guard.)
Victor Burglar Alarm Co., Inc., Clifton, N. J.

ALIGNERS, Wheel, See Gages, Wheel and Axle Aligning

ALUMINUM, Sheet, Rod, Ingot, Shapes

Aluminum Co. of America, 1601 Alcoa Bldg., Pittsburgh 19, Pa.
American Nickeloid Co., Peru, Ill. (Nickel and chrome plated aluminum, in sheets.)
Cleveland Electro Metals Co., 2391 W. 38th St., Philadelphia 29, Pa. (Rod, sheet, strip, bar and wire.)

aluminum to axle suspension units

CCJ'S PRODUCT DIRECTORY

ALUMINUM—continued

Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa. (Rod, sheet, strip, bar and wire.)
Empire Metal Co., 820 E. Water St., Syracuse 3, N. Y.
Fairmont Aluminum Co., Fairmont, W. Va. (Sheet, coil, circles and plate.)
Federated Metals Div. American Smelting & Refining Co., 120 Broadway, New York 5, N. Y. (Ingot.)
Harvey Aluminum Co., 19200 S. Weston Ave., Tarrance, Calif. (Rod and wire.)
Hunter Douglas Corp., 3016 Kansas Ave., Riverside, Calif. (Strip.)
Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland 12, Calif. (Sheet, plate, coils, circles, billets, pig, ingot, rod, bar and wire.)
Niagara Falls Smelting & Refining Div., Continental Copper & Steel Industries Inc., 2204 Elmwood Ave., Buffalo 23, N. Y.
Precision Extrusions, 720 E. Green Ave., Bensenville, Ill. (Extruded shapes, rod, bar and tubing.)
Reynolds Metals Co., 3rd & Grace Sts., Richmond 19, Va. (Sheet plate, wire rod bar, ingot and pig.)

AMMETERS, Instrument Board

AC Spark Plug, The Electronics Div. of General Motors, 1390 N. Dort Highway, Flint 3, Mich.
Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
King-Seely Corp., 315 S. First St., Ann Arbor, Mich.
Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine and Metals, Inc., Clymer Ave., Sellersville, Pa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

ANALYZERS, Combustion

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.
Cambridge Instrument Co., Inc., 3606 Grand Central Terminal Bldg., N. Y. 17, N. Y.
Cholden Mfg. Corp., 331 East St., New Haven, Conn.
Commercial Research Div., George L. Nankervis Co., 15300 Fullerton St., Detroit 24, Mich.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Engelhard, Inc., Charles, 900 Lassaie Ave., East Newark, N. J.
Gale-Hall Engineering, Inc., North Hampton, N. H.
Gow-Mac Instrument Co., 100 Kings Rd., Madison, N. J.
Heyer Industries, Inc., 471 Cortland St., Belleville 9, N. J.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Permutit Co., 330 W. 42nd St., New York 36, N. Y.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmore, Ohio.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.

ANALYZERS, Engine and Electrical

Actane Chemical Co., Philadelphia 3, Pa.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Du Mont Laboratories, Inc., Allen B., 750 Bloomfield Ave., Clifton, N. J.
Gale-Hall Engrg., Inc., North Hampton, N. H.
Heyer Industries, Inc., 471 Cortland St., Belleville 9, N. J.
Hygrade Products Co., 35-35 35th St., Long Island City, N. Y.

King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Mack Products Co., 15 Putnam St., Winthrop, Mass.
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Nankervis Co., George L., 19255 W. Davison Ave., Detroit 23, Mich. (Shock absorbers, transmissions, differentials, etc.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif. (Engine.)

ANTI-FREEZE, Cooling System

Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.
Carbide & Carbon Chemicals Co., Div. of Union Carbide & Carbon Corp., 80 E. 42 St., New York 17, N. Y.
Cliffs Dow Chemical Co., Wright St., Marquette, Mich.
Commercial Solvents Corp., 260 Madison Ave., New York 17, N. Y.
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.
du Pont de Nemours & Co., E. I. Polychemical Dept., Zerone & Zerex Anti-Freeze Sales Section, Wilmington 98, Del. "Zerone," "Zerex."
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Master Co., 37 Preston Ct., Brooklyn 34, N. Y.
Mopar Parts Div., Chrysler Corp., 7000 E. Eleven Mile Rd., Centerline, Mich.
National Carbon Div. of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y.
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.
Petroleum Chemicals Co., Tilton Rd., Danville, Ill.
Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y.
Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
U. S. Industrial Chemicals Co., Div. of National Distillers Products Corp., 120 Broadway, New York 5, N. Y.
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.

ANTI-FREEZE, Gasoline Line

Bardahl Mfg. Corp., 1400 W. 52nd St., Seattle 7, Wash.
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bulleye Corp., 160 Amity Rd., New Haven 15, Conn. (Sole distributors, Livingston Co., 150 Amity Rd., New Haven 15, Conn.)
Commercial Solvents Corp., 260 Madison Ave., New York 16, N. Y.
Cristy Chemical Corp., 21 Putnam Lane, Worcester 4, Mass.
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.
du Pont de Nemours & Co., E. I. Finishes Div., Chemical Specialties Sales, Wilmington 98, Del.
Gliest Co., 15 Barnard St., Hillsdale, Mich.
Hest Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Lubri-Loy Co., 6819 Wilson St., St. Louis 10, Mo.
Motor Kool Products Co., 505 Buttle Ave., Columbus 8, Ohio.
Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Porte Mfg. Co., 3178 Atlantic Ave., Brooklyn 8, N. Y.
Standard Oil Co. of Calif., 225 Bush St., San Francisco 20, Calif.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Zecol, Inc., 3270 S. 3rd St., Milwaukee 7, Wis.

ARMATURES

American Generator & Armature Co., 2614 W. 48th St., Chicago 32, Ill.
Arrow Armatures Co., 15 Fordham Rd., Boston 39, Mass. (Rewinds.)
General Armature & Mfg. Co., Box 370, Mill Hall, Pa.

ARBOR PRESSES, See Presses, Arbor
ARMS, BREAKER, See Parts, Ignition

AXLE, Load Equalizing

De Lay Industries, Inc., 834 Paul Brown Bldg., St. Louis 1, Mo.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.

AXLE STRAIGHTENERS, See Straighteners, Axle; Gages, Wheel and Axle Aligning

AXLE SHAFTS

Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear Mfg. Corp., 193 Grand St., Lockport, N. Y.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Spencer Mfg. Co., N. Main St., Spencer, Ohio.
Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.
Timken-Detroit Axle Div., Rockville Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
U. S. Axle Co., Inc., Water St., Pottstown, Pa.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
York Electric & Machine Co., Loucks Mill Rd., York, Pa. (Sole distributors, Foreman, Inc., 630 Loucks Mill Rd., York, Pa.)

AXLE SUSPENSION UNITS, Trailers

Acme Trailer Mfg. Co., 2591 N. Marks Ave., Fresno, Calif.
Copeco Trailers, Div. of Copeco Steel Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich.
Fayette Mfg. Co., Box 8, Fayette, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Station), Detroit 19, Mich.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, (Chicago suburb), Ill.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Hobbs Trailer Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.
Homan & Co., 511 Reading Rd., Reading, Cincinnati 15, Ohio.
Hutchens & Son Metal Products, Inc., E. Division St. Rd., Springfield, Mo.
Kingham Trailer Co., Inc., 15th & Hill Sts., Louisville, Ky.
New Equipment Co., 1183 E. Laketon St., Muskegon, Mich. (Tandem unit.)
Pointer-Williamette Co., P. O. Box 368, Edmonds, Wash.
Reynolds Mfg. Co., 600 N. Prospect Ave., Springfield 2, Mo.
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. 2nd St., Louisville 8, Ky.
Spencer-Safford Loadcraft Inc., Augusta, Kansas.
Standard Forge & Axle Co., Hunter Sta., Montgomery 2, Ala. (Licensee.)
Steel Products Co., Inc., Box 1007, Savannah, Ga.
Trailmobile, Inc., 31st & Robertson Ave., Cincinnati 9, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.
Trucktor Corp., P. O. Box 120, Westfield, N. J.
Union Metal Mfg. Co., 1432 Maple Ave., N. E., Canton 5, Ohio. (Self-steering undercarriage.)

axle units to batteries

AXLE UNITS, Third, Trucks

Acme Trailer Mfg. Co., 2591 N. Marks Ave., Fresno, Calif.
Clark Equipment Co., Buchanan, Mich.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif. (Chain drive.)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. (Four wheel drive.)
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.
Foster Trailer Co., 2025 Bay St., Los Angeles 21, Calif. (Detachable.)
Fox Body Co., 1109 Galena St., Janesville, Wis.
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Station), Detroit 19, Mich.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
Hobbs Trailers Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.
Hutchens & Son Metal Products, Inc., E. Division St. Rd., Springfield, Mo.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 8, Ill.
Maxi Corp., 1584 E. 20th St., Los Angeles 54, Calif.
Neway Equipment Co., 1183 E. Laketon St., Muskegon, Mich.
Road Runner Corp., 11835 Ave. O, Chicago 17, Ohio. (Detachable; sole distributor Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.)
Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.
Truckstell Mfg. Co., 1437 Union Commerce Bldg., Cleveland 14, Ohio.
Trucktor Corp., P. O. Box 120, Westfield, N. J. (Also chain and sprocket drive.)
Weber Trailer & Mfg. Co., 8400 Slauson Ave., Rivers, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.)

AXLES, Front

Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 1, Wis. (Dual-steering tandem.)
Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Hahn Motors Inc., 400 S. Third St., Hamburg, Pa. (Dual.)
Page and Page Co., 0605 S.W. Curry St., Portland 1, Ore.
Shuler Axle Co., 2960 Second St., Louisville 8, Ky.
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)

AXLES, Front Drive

American-Coleman Co., Littleton, Colo. (For conversions of Ford, Chevrolet, International, G.M.C. and Dodge.)
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (For Ford conversions.)
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

AXLES, Power Converter (For Refrigerated Trucks & Trailers)

Grico Two Axle Drive Co., 19840 Eight Mile Rd., W. Detroit 19, Mich.

AXLES, Rear

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.

Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill. (Wheel reduction.)
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

AXLES, Rear, Two-Speed

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

AXLES, Trailer

Clark Equipment Co., Buchanan, Mich.
Fayette Mfg. Co., Box 8, Fayette, Ohio.
French & Hecht, Div. of Kelsey-Hayes Wheel Co., 3rd & Farnam Sts., Davenport, Iowa.
Hammer Blow Tool Co., 602 1/2 Third St., Wausau, Wis.
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Station), Detroit 19, Mich.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky.
Liggett Spring & Axle Co., Monongahela, Pa.
Shamrock Trailers & Axle Mfg. Co., 18447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Simp Axle Products, Highway 99 West (P. O. Box 449), Colton, Calif. (Steering.)
Spencer Mfg. Co., N. Main St., Spencer, Ohio.
Spencer-Safford Loadcraft, Inc., Augusta, Kas.
Springfield Body & Trailer Co., 1631 College St., Springfield, Ohio.
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala.
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
Trucktor Corp., P. O. Box 120, Westfield, N. J.
United Mfg. Co., 3637 W. 56th St., Cleveland 2, Ohio.

BABBITT METALS

Aluminum Co. of America, 801 Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloys.)
American Non-Gran Bronze Co., Lancaster Ave., Berwyn, Pa.
Bearing Metals Corp., 265 State St., Rochester 14, N. Y.
Belmont Smelting & Refining Works, 326 A Belmont Ave., Brooklyn, N. Y.
Boston Gear Works, Div. of Murray Corp., 14 Hayward St., Quincy 71, Mass.
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 6, N. Y.
Lumen Bearing Co., 197 Lathrop St., Buffalo 12, N. Y.
North American Smelting Co., Marine Terminal, Wilmington, Del.

BABBITTING MACHINES. See Machines, Babbitting

BALANCERS, Wheel

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Hunter Engineering Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.
Lambert, Inc., 513 Hunter Ave., Dayton, Ohio.
Lempco Products, Inc., 5490 Dunham Road, Bedford, Ohio.
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Morgan Wheel & Equipment Co., 2007 St. Mary's Ave., Omaha 2, Neb.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 4, Ind.
Speedmaster Ltd., 630 E. 10th St., Oakland 4, Calif.
Stephenson Foundry & Mfg. Co., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic" (Static and dynamic.)
Stewart-Warner Corp., Alomite Div., 1824 Diversey Parkway, Chicago, Ill. (Electronic.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Dynamic.)

BANDS, Tubeless Tire Mounting

Coats Co., 3001 Fifth Ave., Fort Dodge, Iowa.
(Sole distributors, Jack P. Hennessy Sales Co., 12 Depot Sq., Englewood, N. J.)

BARS, Towing, One Man Type

Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
Marion Mfg. Co., N. Main St. at FRR, Marion, Ohio.
Pilot Mfg. Co., Battle Creek, Mich. (Sole distributors, Pilot Distributing Co., 31 South Pl., Battle Creek, Mich.)
Wood-Williams-Copp Mfg. Co., 5239 N. Michigan Ave., Ypsilanti, Mich.

BATTERIES, Dry

Bright Star Industries, 600 Getty Ave., Clifton, N. J.
Burgess Battery Co., Freeport, Ill.
General Dry Batteries Co., 13000 Athens Ave., W. Cleveland 7, Ohio.
Grant Storage Battery Div. Electric Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
Malloy & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
National Carbon Co. Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Olin Industries, Inc., Electrical Div., 275 Winchester Ave., New Haven 4, Conn.
Ray-O-Vac Co., 212 E. Washington Ave., Madison 10, Wis.
Underwood Battery Co., 1250 Ontario St., Cleveland, Ohio.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

BATTERIES, Storage

American Battery Co., 1520 McGavock St., Nashville 3, Tenn.
Am-Plus Storage Battery Co., 1000 W. 94th St., Chicago 20, Ill.
Atlantic Battery Co., 80 Elm St., Watertown 72, Mass.
Auto-Lite Battery Corp. (Sub. of Electric Auto-Lite Co.), Toledo 1, Ohio.
Bowers Battery & Spark Plug Co., Reading, Pa.
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.
Crescent Battery & Light Co., 818 Camp St., New Orleans 12, La.
Cumberland Battery Mfg. Co., 201 First Ave., S., Nashville 3, Tenn.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Douglas Battery Mfg. Co., Winston-Salem, N. C.
East Penn Mfg. Co., Lyons Station, Pa.
Electric Auto-Lite, Toledo 1, Ohio.
Ebert-Allen Battery Co., 2225 Main St., Joplin, Mo.
Exide Automotive Div., Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.
The Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron 17, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Geldel Battery Mfg. Co., 3393 Bigelow Blvd., Pittsburgh 19, Pa.
General Lead Batteries Co., 196 W. Railway Ave., Paterson, N. J.
Gill Electric Mfg. Corp., 624 W. Citrus Ave., Redlands, Cal.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 10, Ohio.
Gould-National Batteries, Inc., First Nat'l Bank Bldg., St. Paul 1, Minn.
Grant Scott Mariott Battery Div., 1112 Industrial Ave., Danville, Ill.
Grant Storage Battery Div., Electric Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
Hester Battery Mfg. Co., 10 Culvert St., Nashville, Tenn.
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.
Laher Battery Production Corp., 2615 Magnolia St., Oakland, Cal.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Life-Long Battery Mfg. Corp., 11766 W. Pico Blvd., Los Angeles 64, Calif.
Multnomah Battery Mfg. Co., 1901 N. W. Wilson St., Portland 9, Ore.
Patterson Corp., 437 Park Ave., N.W., New Philadelphia, Ohio.

bearing and con rod service to belts

CCJ'S PRODUCT DIRECTORY

BATTERIES—continued

Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.
 Ferrine Quality Products Corp., 55 Rumford Ave., Waltham, Mass.
 Perry Batteries, 3102 Coruna Road, Flint 3, Mich.
 Prest-O-Lite Battery Co., Toledo 1, Ohio.
 Price Battery Corp., Grand St., Hamburg, Pa. (Sole distributors, Lyons Storage Battery Co., Hamburg, Pa.; "Witherbee" sole distributor, Witherbee Storage Battery Co., Hamburg, Pa.)
 Prime Battery Mfg. Co., 2901 W. 8th St., Anderson, Ind.
 Pure Oil Co. 35 E. Wacker Drive, Chicago 1, Ill.
 Put Battery Charger Co., 1207 Castle St., Dallas, Tex.
 Reading Batteries, Inc., 4700 Fifth St., Highway, Temple, Pa.
 Red Diamond Battery Mfg. Co., 1415 N. Adams St., Peoria 3, Ill.
 Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.
 Scranton Storage Battery Corp., Delaware St., Archbald, Pa.
 Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex.
 Surrette Storage Battery Co., Jefferson Ave., Salem, Mass.
 United Motors Service, General Motors Bldg., Detroit 2, Mich.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill.
 Volta Battery Corp., 1000 E. 87th St., Chicago 19, Ill.
 Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.
 Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis.
 Witherbee Storage Battery Co., Hamburg, Pa.

BATTERY CHARGERS, See Chargers, Battery.

BEARING and CON ROD SERVICE

Federal-Mogul, Detroit 13, Mich.

BEARINGS, Ball

Aetna Ball & Roller Bearing Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill. (Thrust and angular contact.)
 Ahlberg Bearing Co., 3025 W. 47th St., Chicago 22, Ill.
 American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
 Automatic Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.
 Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn.
 Bearings Co. of America, Div. of Federal-Mogul-Bower Bearings, Inc., 501 Harrisburg Ave., Lancaster, Pa.
 Bearings Industry Co., 311 W. 56th St., New York 19, N. Y. ("BIC": "R & M" [Imported].)
 Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 11, Mass.
 Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill. (Assemblies.)
 Consolidated Bearings Co., 13 Princeton St., East Orange, N. J.
 Continental Bearing Corp., 2515 Wabash Ave., Chicago 16, Ill.
 Fafnir Bearing Co., 87 Booth St., New Britain, Conn.
 Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.
 Green Ball Bearing Co., 9518 Cassius Ave., Cleveland 5, Ohio.
 Gwilliam Co., 360 Furman St., Brooklyn 1, N. Y.
 Heim Co., 46 Sanford St., Fairfield, Conn.
 Hoover Ball & Bearing Co., Ann Arbor, Mich.
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.
 Kaydon Engineering Corp., Muskegon, Mich.
 L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.
 Majestic Bearing Div. of Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.

Marlin-Rockwell Corp., 402 Chandler St., Jamestown, N. Y. (Sole distributors to replacement trade, M-R-C Bearings Service Co., Jamestown, N. Y.)
 Master Parts Div., Airtex Products Inc., Fairfield, Ill.
 New Departure Div. General Motors Corp., Bristol, Conn. (Steel.)
 Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
 Norma-Hoffmann Bearings Corp., Hamilton Ave., Stamford, Conn.
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
 Powercraft Corp., 2515 S. Wabash Ave., Chicago 11, Ill.
 SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
 Schatz Mfg. Co., Poughkeepsie, N. Y.
 Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.
 Thomson Industries, Inc., 1029 Plandome Rd., Manhasset, N. Y.
 United Motors Service, General Motors Bldg., Detroit 2, Mich.
 Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 16, Wis.

BEARINGS, Clutch Throwout

Accurate Parts Mfg. Co., 1606 S. Ashland Ave., Chicago 5, Ill.
 Aetna Ball & Roller Bearings Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill. (Ball; sole distributors to replacement trade, Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.)
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
 Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.
 Bearings Co. of America, Div. of Federal-Mogul-Bower Bearings, Inc., 501 Harrisburg Ave., Lancaster, Pa.
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Green Ball Bearing Co., 9518 Cassius Ave., Cleveland 5, Ohio.
 L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.
 Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempeo Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
 Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
 Perfection Gear Co., 152nd St. & Viacennes Ave., Harvey, Ill.
 Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
 SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
 Schatz Mfg. Co., Poughkeepsie, N. Y.

BEARING LEAK DETECTORS, See Testers, Bearing Wear

BEARINGS, Roller

Aetna Ball & Roller Bearing Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill.
 American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
 Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.
 Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn.
 Bearings Industry Co., 311 W. 56th St., New York 19, N. Y.
 Bower Roller Bearings Div., Federal-Mogul-Bower Bearings, Inc., 3040 Hart Ave., Detroit 14, Mich.
 Consolidated Bearings Co., 13 Princeton St., East Orange, N. J.
 Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
 Federal-Mogul Service, Div. Federal-Mogul Corp., Detroit 13, Mich.
 Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
 Gwilliam Co., 360 Furman St., Brooklyn 1, N. Y.
 Heim Co., 46 Sanford St., Fairfield, Conn.
 Hoover Ball & Bearing Co., Ann Arbor, Mich.
 Hyatt Bearings Div., General Motors Corp., Harrison N. J.
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.
 Kaydon Engineering Corp., Muskegon, Mich.
 L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.

Majestic Bearing Div. of Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
 Norma-Hoffmann Bearing Corp., Hamilton Ave., Stamford, Conn.
 Orange Roller Bearing Co., 557 Main St., Orange, N. J.
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
 Powercraft Corp., 2515 S. Wabash Ave., Chicago 11, Ill.
 Roller Bearing Co. of America, Whitehead Rd., Trenton 3, N. J.
 Rollway Bearing Co., 541 Seymour St., Syracuse 4, N. Y.
 SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
 Timken Roller Bearing Co., 1835 Dueber Ave., S. W., Canton 6, Ohio.
 Torrington Co., 54 Field St., Torrington, Conn.
 Tyson Bearing Corp., Oberlin & Thomas Aves., Massillon, Ohio.
 United Motors Service, General Motors Bldg., Detroit 2, Mich.

BEARINGS and BUSHINGS

Allied Motor Parts Co., Detroit 1, Mich.
 Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale L. I., N. Y. (Aluminum lined, semi-finished.)
 Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Distributors to replacement trade, Aluminum Industries, Inc., 2438 Beekman St., Cincinnati, Ohio.)
 Bronze Bearings Inc., 240 North Ave., E. Cranford, N. J.
 Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland 3, Ohio.
 Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
 Cleveland Graphite Bronze Co., Div. of Cleveite Corp., 17000 St. Clair Ave., Cleveland 10, Ohio. (Also sole distributors to replacement trade, Cleveite Service, 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth" bearings.)
 Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
 Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif. (Babbitt lined bearings.)
 Federal-Mogul Div. Federal-Mogul-Bower Bearings, Inc., 11081 Shoemaker Rd., Detroit 13, Mich.
 International Parts Corp., 11th & State Sts., Chicago 5, Ill.
 Johnson Bronze Co., 640 S. Mill St., New Castle, Pa.
 Mallory & Co., P. R., 3029 E. Washington St., Indianapolis, Ind.
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
 Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
 Morse Co., J. Leslie, 4227 Whiteside St., Los Angeles 63, Calif.
 Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind. (for power take-off drive lines)
 National Molded Products, Inc., 40 S. St. Marys St., St. Marys, Pa.
 Pioneer Motor Bearing Co., 790 Eddy St., San Francisco 9, Calif. (Babbitt lined.)
 Randall Graphite Bearings, Inc., Greenlawn & Lake Sts., Lima, Ohio. (Bearings.)
 Toledo Steel Products Co., 2300 Summit St., Toledo 11, Ohio. (Engine bearings.)
 United Motors Service, General Motors Bldg., Detroit 2, Mich.
 Wolverine Gear & Parts Co., Osseo, Mich. (Camshaft bearings.)

BELTS, Fan and Accessories

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
 Boston Woven Hose & Rubber Co., P. O. Box 101, Boston 3, Mass.
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
 Continental Rubber Works, 1946 Liberty St., Erie, Pa.
 Crown Products Co., Ralston, Neb.
 Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Texas.
 Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.
 Diamond Rubber Co. Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
 Durkee-Atwood Co., 215 Seventh St., N. E. Minneapolis 13, Minn.
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.

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COMMERCIAL CAR JOURNAL, November, 1956

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CCJ'S PRODUCT DIRECTORY

BELTS—continued

Goodrich Co., B. F., Industrial Products, 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Loreman Products, Moore & Division Sts., Salisbury, Md.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Ohio Rubber Co., 30 Ben Hur Ave., Willoughby, Ohio.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Thermold Co., 200 Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1236 Ave. of the Americas, New York 20, N. Y.

BELTS, Safety

Aero Safety Equipment Co., Los Angeles, Cal.
Firestone Tire & Rubber Co., Akron, Ohio.
Goodrich Co., B. F., Tire & Equipment Div., 500 S. Main St., Akron, Ohio.
Hickok Mfg. Co., 850 St. Paul St., Rochester 1, N. Y.
Irving Airchute Co., Lexington, Ky.
Kwikset Automotive Products, Div. of Kwikset Locks, Inc., Anaheim, Calif.
Modern Accessories Co., 1526 Scott Blvd., Covington, Ky.
Rupert Parachute Co., Wheeling, Ill.
Russell Mfg. Co., Middletown, Conn.
Safety Sales Co., Stamford, Conn.
Spartan Automotive Div., Sparks-Withington Co., Jackson, Mich.
Sturges Mfg. Co., 2030 Sunset Ave., Utica 4, N. Y.
Switlik Parachute Co., 1325 E. State St., Trenton, N. J.

BENCH DRILLS, See Drill Presses

BENDERS, Tube

Capewell Mfg. Co., 60 Governor St., Hartford, Conn.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Farrell-Cheek Steel Co., Ft. Madison St., Sandusky, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Leonard Precision Products Co., 10052 Larson Ave., Garden Grove, Calif.
Logansport Machine Co., Center Ave., Logansport, Ind.
O'Neill-Irwin Mfg. Co., Lake City, Minn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Paul Machine Tool & Die Works, 4600 S. Kedzie Ave., Chicago 32, Ill.
Pines Engrg. Co., 601 Walnut St., Aurora, Ill.
Tal Bender, Inc., 417 N. Water St., Milwaukee 2, Wis.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

BINDERS, See Lead Binders

BINS, Parts Storage

Akro-Mills Inc., 820 E. Market St., Akron 5, Ohio.
American Metal Products Co., 5959 Linadale Ave., Detroit 4, Mich.
Bay Products, Inc., (Steel), 8001 N. 16th St., Philadelphia 32, Pa.
Berger Mfg. Div. Republic Steel Corp., 1038 Reiden Ave., N. E., Canton 5, Ohio.
Bernard Franklin Co., Hedley & Bath Sts., Phila., 37, Pa.
Burroughs Mfg. Co., 3002 N. Burdick St., Kalamazoo, Mich.

Equipto Div. of Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.
Fort Steuben Metal Products Co., Follansbee, W. Va.
Franklin Co., Bernard, Healey & Bath Sts., Philadelphia 37, Pa.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
Frontier Mfg. Co., 11200 Harry Hines Bldg., Dallas, Tex.
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Hope Metal Products Co., 1688 Arabella Rd., Cleveland 12, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Midland Mfg., Inc., 1100 S. McComa's St., Wichita 12, Kan. (Steel.)
Miller Wood Products Co., Greater Rockford Airport, Rockford, Ill.
Neiman Steel Equipment Co., 2960 E. Venango St., Philadelphia 24, Pa.
Red Tiger Products, Inc., 20 N. Wacker Drive, Chicago 6, Ill.
Renie Metal Products Corp., P. O. Box 344, Mansfield, Ohio.
Star Steel Equipment Co., 117-20 14th Rd., College Point, L. I., N. Y. (Steel.)
Supreme Steel Equip. Co., 53rd St. & First Ave.,oklyn, 32, N. Y.
Union Metal Mfg. Co., 1432 Maple Ave. N.E., Canton 5, Ohio.

BLADES, Saw, Band

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass.
Atkins Saw Div., Borg-Warner Corp., 402 S. Illinois St., Indianapolis 9, Ind.
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.
Chicago Saws, Inc., 6137 S. Oak Park St., Chicago 9, Ill.
Diamond Saw Works, Inc., 260 Court St., Buffalo 2, N. Y.
Diston & Sons, Henry, Tacony, Philadelphia 35, Pa.
DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Griffin Co., G. W., 98 Memorial St., Franklin, N. H. (Sole distributors, John H. Graham & Co., 105 Duane St., New York 6, N. Y.)
Lippert Saw Co., E. T., 605 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Millers Falls Co., Greenfield, Mass.
Napier Saw Works, 22 Cottage St., Middletown, N. Y.
Rockwell Tools, Inc., 1314 Kinnear Rd., Columbus 8, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Spartan Saw Works, Inc., 152 Fiak Ave., Springfield 7, Mass.
Starrett Co., L. S., 1-165 Crescent St., Athol, Mass.
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

BLADES, Saw, Circular

Atkins Saw Div., Borg-Warner Corp., 402 S. Illinois St., Indianapolis 9, Ind.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Chicago Saws, Inc., 6137 S. Oak Park St., Chicago 9, Ill.
Circular Tool Co., 765 Allens Ave., Providence, R. I.
Cowles Tool Co., 2886 W. 110th St., Cleveland, Ohio.
Diston & Sons, Henry, Tacony, Philadelphia 35, Pa.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Lippert Saw Co., E. T., 605 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Mica undercutting.)
Motch & Merryweather Machinery Co., 715 Penton Bldg., Cleveland 13, Ohio.
Page Slotting Saw Co., 1836 Laurence Ave., Toledo 6, Ohio.
Retool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
Rockwell Tools, Inc., 1314 Kinnear Rd., Columbus 8, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Standard Tool Co., 3950 Chester St., Cleveland 14, Ohio.
Willey Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

BLEEDERS, Hydraulic Brake

Ammo Tools Inc., 2100 Commonwealth Ave., North, Chicago, Ill.
Arco Mfg. & Sales Corp., 451-10th Ave., New York 18, N. Y.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Dixie-Jibo Co., 2004 Mullaphy St., St. Louis 6, Mo.
Eis Automotive Corp., Middletown, Conn.
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Supco Div. of Lisle Corp., 805 E. Main St., Clarinda, Iowa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilco Products Inc., 595 Valley St., Orange, N. J.
Wilson, Inc., K. R., Arcade, N. Y.

BLOCKS, CRANE and DERRICK, See Cranes.

Crawler & Truck Mounted

BLOCKS, BRAKE, See Lining, Brake

BLUE, Mechanics'

Durkee-Atwood Co., 215 Seventh St., N.E., Minneapolis 13, Minn.
Dykem Co., 2301 N. 11th St., St. Louis 6, Mo.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.

BODIES, Ambulance and Funeral

Eureka Co., 312 W. First St., Rock Falls, Ill.
Franklin Body & Equipment Corp., 1042 Dean St., Brooklyn, N. Y. (Ambulance.)
Hesse & Eisenhardt Co., 8959 Blue Ash Ave., Rossmoyne, Ohio.
Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio.
Miller Div., Wayne Works, Inc., Bellefontaine, Ohio.
National Body Mfg. Co., Main St., Knightstown, Ind.
Roehik Spring and Body Co., 417 S. 16th St., St. Louis 3, Mo.
Shop of Siebert, Associates, Inc., Waterville, Ohio.
Superior Coach Corp., Southern Div., Kosciusko, Miss.

BODIES, Commercial

Allegheny Body Co., 1633 N. 6th St., Phila. 22, Pa.
Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.
American Body & Equipment Co., P. O. Box 3107, Dallas 21, Tex. (Insulated and refrigerated.)
American Body & Trailer, Inc., P. O. Box 1150, Oklahoma City 1, Okla.
American Fire Apparatus Co., Golden Ave. at Main St., Battle Creek, Mich. (Fire fighting apparatus.)
American Truck & Body Co., Martinsville, Va.
Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.
Arkansas Machine Specialty Co., Hope, Ark. (Bottlers.)
Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa.
Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis. (Fire fighting equipment, utility, refrigerated, bottlers', etc.)
Badger Body Mfg. Co., 2719 Cuming St., Omaha, Neb. (Combination grain and stock.)
Baker Equipment Engrg. Co., Summit & Norfolk Sts., Richmond 11, Va. (Also public utility.)
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 5, Mo.
Baltimore Body Corp., 2253 Kirk Ave., Baltimore, Md.
Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.
Barry & Bailly Co., 2419 N. 27th St., Philadelphia 32, Pa.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Batavia Body Co., 5 W. Wilson St., Batavia, Ill. (Refrigerator.)
Baughman Mfg. Co., Shipman Rd., Jerseyville, Ill.
Belgrade Wagon Works, 3740 E. Thompson St., Philadelphia 37, Pa.
Belmont Body Builders, 175 Belmont Ave., Newark 8, N. J.
Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6, N. J. (Refrigerator.)

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BODIES—continued

- Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla. (Special duty.)
- Bolick Sons Co., Jerome, Conover, N. C.
- Born & Sons, Inc., Herman N. North Point Rd. & Bayview Ave., Baltimore 24, Md.
- Borum, Son & Co., J. W., 716 Freeman St., Norfolk, Va. (Stake, beverage and van.)
- Boyetown Auto Body Works, Inc., Third & Walnut Sts., Boyetown, Pa.
- Brandt, Inc., Charles T., Body Div., 201 N. Haven St., Baltimore 24, Md.
- Brightbill Body Works, Inc., M. A., Lebanon, Pa.
- Brunswick Body Wks., U. S. Route 1, New Brunswick, N. J.
- Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
- C & C Trailer & Body Co., 8855 San Leandro St. Oakland 21, Calif.
- Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio.
- Cato Trailer Service Co., White Horse Rd., Greenville, S. C. (Truck and trailer.)
- Chadwick, Inc., Seventh St. & Keystone Ave., Darby, Pa.
- Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 1, Wis. (Ready mixed concrete.)
- Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
- Clark Co., B. M., Union, Maine.
- Clayton-Lorens Co., 4058 W. Chicago Ave., Chicago 61, Ill. (Custom built.)
- Cliffside Body Corp., 230 Laird Ave., Cliffside Park, N. J. (Steel and aluminum.)
- Cook Body Co., 2433 Wilkinson Blvd., Charlotte 8, N. C. (Van platform, stake.)
- Copco Trailers, Div. of Copco Steel & Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich.
- Couse Mfg. Inc., 800 Passale St., Newark 4, N. J. (Armored.)
- Crown Body & Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.
- Crown Steel Products Co., Orrville, Ohio. (Utility.)
- Cutler Metal Products Co., 1029 Line St., Camden, N. J.
- De Hart & Son, H. A., Crown Pt. Rd., Thorofare, N. J.
- DeKalb Commercial Body Co., W. 229 Garden St., DeKalb, Ill. (Stake, milk delivery, freighter vans, bakery, laundry, refrigerator, parcel delivery, etc.)
- Delphi Body Works, 311 S. Washington St., Delphi, Ind. (Public utility.)
- Diehl & Sons, Inc., 129 Atlantic Ave., Richmond Hill 19, N. Y.
- Dixie Tallyho, Inc., Fairburn, Ga. (Unit which converts truck into station wagon for pickup bodies.)
- Driban Body Works, 1310 S. Second St., Philadelphia, Pa.
- Dura-Bilt Body Co., Bldg. No. 8, National Dock, East Boston 28, Mass.
- Evans Mfg. Co., John, 8 miles south of Hwy. 16A, Sumter, S. C.
- Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill. (Public utility.)
- Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Stake and platform.)
- Finn Auto Body Co., 15 W. Charlton St., Cincinnati 19, Ohio.
- Finnese Body Co., 811 W. Taney St., Phila. 30, Pa.
- Fontaine Truck Equipment Co., 1232 37th Pl. N., Birmingham, Ala.
- Fox Body Co., 1109 Galenta St., Janesville, Wis.
- Franklin Auto Body & Equipment Corp., 1042 Dean St., Brooklyn, N. Y.
- G & G Mechanical Co., 723 N. Main St., Fort Worth 6, Texas.
- Gar Wood Industries, Inc., Wayne, Mich. (Garbage and rubbish collection unit.)
- General Body Mfg. Co., 713 W. Pennway, Kansas City, Mo.
- Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.
- Gertenslager Co., Wooster, Ohio. (Custom-made.)
- Giant Mfg. Co., 12th Ave. & S. Sixth St., Council Bluffs, Iowa. (Farm and City Stake.)
- Gleicher Iron Works, Inc., Fred S., 1214-24th St. N. W., Washington 7, D. C. (Glass industry, soft drink, aluminum utility, etc.)
- Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind. (Refrigerated.)
- Gindy Mfg. Co., Boot Rd. & Chestnut St., Downingtown, Pa.
- Hackney Bros. Body Co., Goldsboro St., Wilson, N. C. (Refrigerator, meat, van, dairy and utility.)
- Hackney & Son, J. A., 400 Hackney Ave., Washington, D. C.
- Halsey Machine & Mfg. Co., 131 Arrowhead Ave., San Bernardino, Calif. (Bottling and oil.)
- Hayes Metal Products Div., United Industrial Corp., 551 Seventh St., N.W., Grand Rapids 2, Mich.
- Heil Co., Dept. 3000 W. Montana St., Milwaukee 1, Wis. (Garbage-refuse.)
- Hercules Gallon Products, Inc., Gallon, Ohio. (Garbage and refuse collection.)
- Hercules Mfg. Co., 1501 W. Franklin St., Evansville 7, Ind.
- Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo. (Refrigerator, delivery van, bottlers, beverage, bakery, etc.)
- Hesse Carriage Co., 1720 Cherry St., Kansas City, Mo.
- Hews Body Co., 87 St. John St., Portland 4, Maine.
- Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis. (Public utility.)
- Hobbs Trailers Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.
- Hoffman Auto Body Service, Inc., 1480 N. Grant Ave., Columbus, Ohio. (Insulated & refrigerated.)
- Holby Body Co., E., 2010 Washington Ave., N., Minneapolis, Minn.
- Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
- Hooper Body Corp., 31 St. & Warwick Ave., Newport News, Va.
- Hubbard Mfg. Co., Farmland, Ind. (Service car.)
- Hughes-Keenan Corp., Delaware, Ohio.
- Industrial Steel Tank & Body Works, Inc., 2533 Fourth St., Berkeley 10, Calif.
- Ingersoll Kalamazoo Div., Borg-Warner Corp., 1810 N. Pitcher St., Kalamazoo, Mich. (Detachable containers for loose bulk material and refuse.)
- Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.
- Jefferson Body Co., 1711-3rd Ave., S., Birmingham 3, Ala.
- Jensen's Body Shop, Phillips, Wis.
- John Bean Div., Food Machinery & Chemical Corp., 1305 S. Cedar St., Lansing 4, Mich. (Fire fighting equipment)
- Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.
- Kammer Body Corp., 150 Beaver St., Jamaica 4, N. Y. (Box panel, rack and platform insulated.)
- Kennedy Mfg. Co., 501 N. Monroe St., Streator, Ill. (Grain, live stock.)
- Kensington Wagon Works, 2756 Frankford Ave., Philadelphia 34, Pa.
- Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.
- Ketter Truck Bodies, Third & Ellison Ave., Ironton, Ohio. "Markette."
- Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Wis.
- Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 20, Mo.
- Keystone Wagon Works, Inc., C St. & Allegheny Ave., Philadelphia 34, Pa. (also refrigerated)
- Kiley Co., James A., 15 Linwood St., Somerville, Mass. (Public utility.)
- Klein Body Co., 3280 W. 25th St., Cleveland 9, Ohio (also Public Utility)
- Knapheide Mfg. Co., 440 S. 6th St., Quincy, Ill. (Grain, livestock and stake.)
- Koch & Son Mfg. Co., 200 Wilson Ave., N. E., St. Cloud, Minn.
- Koerner Sons, Inc., John, 34 Walton St., Brooklyn 6, N. Y.
- Lacey & Sons Co., W. F., 50 Mystic Ave., Medford 55, Mass.
- Lagerquist Body Co., 2nd & Keosauqua Sts., Des Moines, Iowa.
- Lang Co., 267 W. First South St., Salt Lake City 10, Utah.
- Lewisohn Sales Co., Inc., 4601-15 Dell Ave., North Bergen, N. J.
- Long Trailer Service, Goldsmith & McKoy Sts., Greenville, S. C.
- Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa. (Wreckers)
- Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.
- McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. (Service truck.) (Public utility.)
- Meeks Son, S. J., 622 G St., N. W., Washington 1, D. C.
- Metal Auto Parts Co., 1428 W. Henry St., Indianapolis 7, Ind.
- Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio. (Specialized.)
- Meyer Body Co., 218 Elm St., Buffalo 2, N. Y. (Refrigerated.)
- Mickey Body Co., W. F., 105 Perry St., High Point, N. C.
- Mid-State Body Co., Waterloo, N. Y.
- Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill. (Stake, farm and van.)
- Midwest Works, Inc., W. on Highway 54, Augusta, Kans.
- Miller & Co., A. C., 17 Courtland St., N. E., Atlanta, Ga.
- Miller Trailers, Inc., 708 Third St., W., Bradenton, Fla. (Refrigerated, insulated, freight, van and stakes.)
- Millington Truck Body Co., 8440 N. State St., Millington, Mich. (Insulated, milk, produce, meat, bakery and beer.)
- Modern Auto Body Builders Co., 252 Johnson Ave., Brooklyn 6, N. Y. (Armored and refrigerated.)
- Moline Body Co., 222 52nd St., Moline, Ill.
- Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
- Montpelier Mfg. Co., Montpelier, Ohio. "Montpelier." (Parcel delivery and frequent stop.)
- Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Utility and service.)
- Morse Body Mfg. Co., 69 Howard St., Watertown 72, Mass.
- Morysville Body Works, 813 S. Reading Ave., Boyertown, Pa. (Utility bodies.)
- Murphy Body Works, Inc., Herring Ave., Wilson, N. C. (Also refrigerator & insulated.)
- Nabors Co., W. C., Mansfield, La.
- National Truck Equipment Co., 1611 Crystal Ave., Kansas City 3, Mo. (Power line and contractors.)
- New Haven Carriage & Auto Works, 508 N. W. Everett St., Portland 9, Ore.
- Niederhut Carriage Co., 3540 Walnut St., Denver 6, Colo.
- Nogues Body Co., 1332 S. Ogden Drive, Los Angeles 19, Calif.
- Novelty Carriage Works, Inc., 815 Second Ave., Spokane 4, Wash.
- Ohle Body Mfg. Co., New London, Ohio.
- Olsen & Son, R. P., 920 N. 24th St., Omaha, Neb. (Refrigerated and insulated.)
- Olson Corp., J. B. E., 1740 Broadway, New York 19, N. Y. (Package delivery for Ford, Dodge, Chevrolet and GMC chassis; van.)
- Olson & Son, Inc., Chas., 2948 Pillsbury Ave., Minneapolis, Minn.
- Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa.
- Oneida Products Corp., Canastota, N. Y.
- Parsons Engineering Corp., 4590 Beidler Rd., Willsoughby, Ohio. (Public service.)
- Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn. Pa.
- Perfection Steel Body Co., S. East St., Gallon, Ohio.
- Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis. (Fire engine.)
- Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
- Progress Mfg. Co., Oil Equipment Div., Arthur, Ill. (Fire truck.)
- Providence Body Co., 750 Wellington Ave., Cranston, R. I. (Also van.)
- Quitaland Bodies & Equipment, P. O. Box 396, North Bend, Wash.
- R. B. Co., Guinotte & Euclid Sts., Kansas City 20, Mo. (Lumber roll-off.)
- Reading Body Works, Inc., 420 Gregg Ave., Reading, Pa. (Utility line & line construction.)
- Rehberger & Son, Inc., Arthur, 316 Ferry St., Newark 5, N. J. (For cement block and brick industry.)
- Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal.
- Roadway Mounting & Equip. Co., 21177 Mound (P. O. Box 164), Van Dyke, Mich.
- Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39, Mass. (Refrigerated and insulated.)
- Rock Hill Body Co., W. Main St., Rock Hill, S. C.
- Santeler Bros., 950 E. Main St., Columbus 5, Ohio (Refrigerated, van, stake, etc.)
- Scammell & Sons, 116 Quincy Ave., Quincy 69, Mass.
- Schayer & Badinger, Inc., 2841 Tchoupetoulous St., New Orleans 15, La. (Bottlers, deck and closed panel.)
- Schmitt & Son, Inc., John V., 314 14th St., S.E., Washington 2, D. C.
- Schnabel Co., S. 10 & Muriel Sts., Pittsburgh 3, Pa. (Refrigerated or insulated.)
- Sharpville Steel Fabricators, Inc., Sharpville, Pa. (Fire apparatus, rescue, emergency and squad trucks.)

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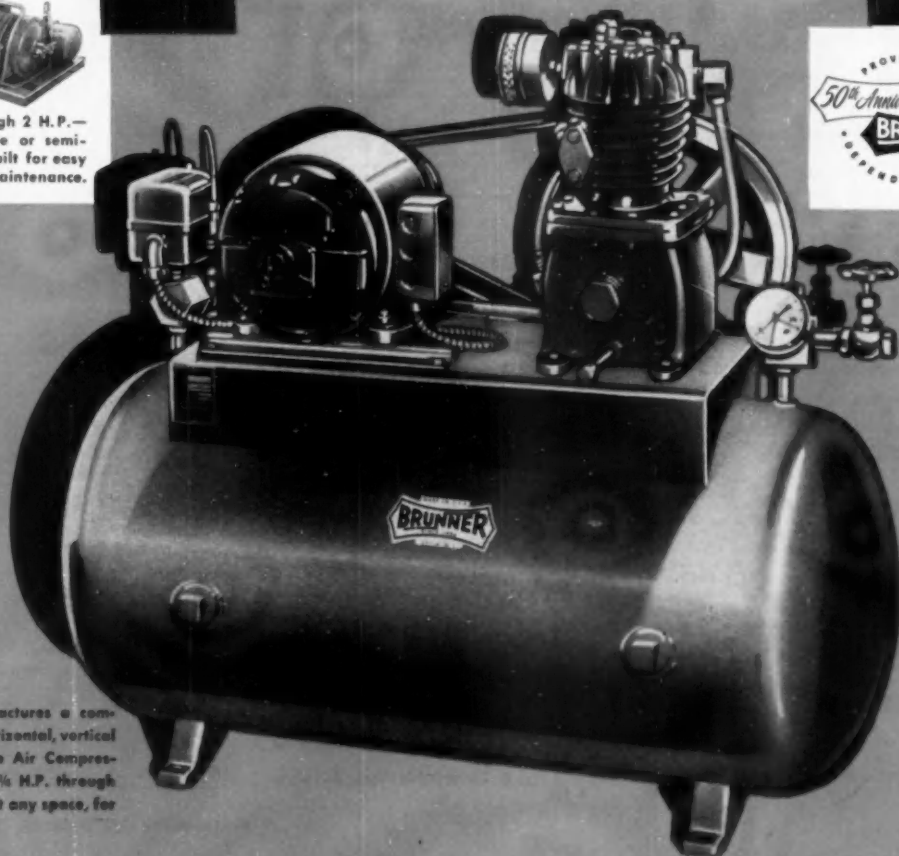
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Sherran & Co., Earl, 2526 Wood St., Oakland 7, Cal. (Bakery & refrigerated.)
Silver Body Works, Inc., 78 Ingraham St., Brooklyn 37, N. Y.
Soffe & Son, Morris, 170 W. Berks St., Philadelphia 22, Pa.
Specialty Engineering Co., Torresdale Ave. & Pennypack St., Phila. 36, Pa. (Bottlers.)
Stahl Metal Products, Inc., 3490 W. 140th St., Cleveland 11, Ohio. (Utility.)
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif.
Steel Products Co., P. O. Box 1007, Savannah, Ga. (Aluminum.)
Steffen Body Co., O. F., 613 W. Seventh St., Sioux City 3, Iowa
Servall Truck Body Mfg. Co., 4888 Cermak Rd., Cicero, Ill.
Stewart & Stevenson Services, Inc., 4516 Harrisburg Blvd., Houston, Tex.
Stewart Steel Products, Inc., 1786 E. New York Ave., Brooklyn 7, N. Y. (Refrigerated, transportation, van, custom built, platform and stake.)
Stoughton Cab & Body Co., 408 E. South St., Stoughton, Wis. (Van, stake and refrigerated.)
Strick Trailer Div., Fruehauf Trailer Co., 5600 N. Broad St., Philadelphia 11, Pa.
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio. (Utility.)
Swab Wagon Co., 21 S. Callowhill St., Elizabeth, Pa. (Refrigerated & chick vans.)
Swift All-Steel Body Co., 106 Hoyt St., Saginow 29, Mich.
Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Thompson Trailer Corp., Pikeville, Md. (Aluminum public utility, package delivery and flat bed.)
Thornton Mfg. Co., 10th & Montgomery Ave., Phila., Pa.
Timphe Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Time Saver Body Co., 3035 E. Grand Blvd., Detroit 2, Mich.
Traffic Body Co., 5301 N. 2nd St., St. Louis, Mo. (Stake and panel.)
Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa.
Travelodge Corp., 65 N. Madison St., Tulsa, Okla. (Wood and steel.)
Triangle Body Works, 2012 Waughton Rd., Winston-Salem 6, N. C. (Stake and van.)
Truck & Trailer Industries, Inc., 611 Jackson Ave., New York 55, N. Y.
Truck Engrg. Co., 3290 E. Pontiac St., Fort Wayne 4, Ind. (Utility.)
Truck Engineering Corp., 1235 W. 70th St., Cleveland 2, Ohio.
Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash. (Steel flat deck.)
Union City Body Co., W. Pearl St., Union City, Ind. (Parcel delivery for GMC and Chevrolet & Ford.)
Unisteel Body, Div. of Hercules-Galion Products, Inc., 605 W. Market St., Galion, Ohio. (Steel & aluminum van.)
Utility Body Co., 1530 Wood St., Oakland 7, Calif.
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis. (Utility line construction.)
Veenema & Wiegner, Inc., 241 N. Tenth St., Paterson 2, N. J.
Wade & Dunton, Inc., 636 Main St., Lewiston, Maine. (Custom built.)
Wall Mfg. Co., 636 S. Stratford Rd., Winston-Salem, N. C.
Walsh Body Sales Corp., 92-96 Prospect St., Somerville 43, Mass.
Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y. (Aluminum.)
Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Riverdale, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.)
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.
Weld-Built Body Co., 5903 Preston Court, Brooklyn 34, N. Y. (Wreckers.)
Wentworth & Irwin Inc., 123 N. E. Oregon St., Portland 14, Ore.
White Metal Rolling & Stamping Corp., White-light Magnesium Div., 376 Lafayette St., New York 3, N. Y.
Williamson Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah.
Wilson Trailer Co., 2400 Leach Ave., Sioux City 6, Iowa. (Grain, livestock, van & refrigerated.)

Winter-Weiss Co., 2001 Blake St., Denver 5, Colo.
Wright Co., Thomas, 185 Dey St., Jersey City 6, N. J.
Yancey Bros., 110 Jackson St., N. E., Atlanta, Ga.
York-Hoover Corp., Body Div., Wheatfield St. & M. P. R. R., York, Pa. (Also public utility.)

BODIES, Commercial, Prefabricated

Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.
Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6, N. J.
Brown Trailers, Inc., Box 54, Spokane 10, Wash. (Aluminum.)
Brunswick Body Works, U. S. Route 1, New Brunswick, N. J.
De Hart & Son, H. A., Crown Pt. Rd., Thorofare, N. J.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Giehner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.
Hews Body Works, 87 St. John St., Portland 4, Maine
Lindsay Structure, Inc., 5000 Dempster St., Skokie, Ill. (Truck and trailer.)
Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa. (Sections.)
Servall Truck Body Mfg. Co., 4838 Cermak Rd., Cicero, Ill.

BODIES, Dump

Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.
Anthony Co., Streator, Ill.
Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa.
Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.
Baughman Mfg. Co., Shipman Rd., Jerseyville, Ill. (Self-unloading.)
Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6, N. J.
Clark Co., B. M., Union, Maine.
Converto Mfg. Co., Cambridge City, Ind.
Cook Bros. Equip. Co., 3334 San Fernando Rd., Los Angeles 65, Calif.
Cresci, A. & Son, Boulevard & Grape Sts., Vineland, N. J.
Daybrook Hydraulic Div. L. A. Young Spring & Wire Corp., Bowling Green, Ohio.
Dempster Bros., Inc., Box 3127, Knoxville, Tenn. (Detachable containers.)
Easton Car & Construction Co., Liberty & Holly Sts., Easton, Pa. (Heavy duty.)
Feigelson Co., Alex, 500 S. 4th St., Beaumont, Tex.
Gar Wood Industries, Inc., Wayne, Mich. (Garbage and rubbish collection unit.)
Gate City Steel-Boise, Inc., 4900 Warm Springs Ave., Boise, Idaho
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass. "Hi-Lift."
Giehner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Independent Iron Works, Eighth & Pine Sts., Oakland 20, Calif.
Jensen's Body Shop, Phillips, Wis.
Lane Co., 267 W. First South St., Sale Lake City 10, Utah.
Marion Metal Products Co., Cheney Ave., Marion, Ohio
Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
National Truck Equipment Co., 1611 Crystal Ave., Kansas City 3, Mo.
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn. Pa.
Perfection Steel Body Co., S. East St., Galion, Ohio.
Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
Providence Body Co., 750 Wellington Ave., Cranston, R. I.
Roadway Mounting & Equip. Co., 21177 Mound Rd., Van Dyke, Mich.
Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo.
Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa.

Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Refuse collection.)
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif. (Hydraulic.)
Stewart & Stevenson Services, Inc., 4516 Harrisburg Blvd., Houston, Tex.
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Timphe Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Truck Engineering Corp., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat."
Truck Engineering Corp., 1285 W. 10th St., Cleveland 2, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.
Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash.
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.

BODIES, TANK, See Tanks, Trailer and Truck
BODY HOISTS, See Hoists, Truck Body

BODY PARTS, Pre-Shaped

(See also Hardware, Truck Body)
Anzick Auto Body Parts Co., 23675 Mound Rd., Van Dyke, Mich.
Bath & Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Binkley Mfg. Co., Warrenton, Mo.
Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
Cook & Metal Works, 337 S. Campbell Ave., Mishawaka, Ind. (Roof caps for cabs, buses, trucks and trailers.)
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio.
Edwards Co., Inc., O. M., Syracuse 4, N. Y. (Insulated window.)
Hart Metal Products Corp., 3306 Hammond St., Elkhart, Ind. (Corner posts, roof bows and caps, rut rails, etc.)
Hill Auto Body Metal Co., 700 W. 6th St., Cincinnati, Ohio.
Hutchins Mfg. Co., 9723 Breckenridge Ave., St. Louis 14, Mo. (Panels, etc.)
Indianapolis Power Hammer Works, 309 W. Maryland St., Indianapolis, Ind.
Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio.
Kirk & Blum Mfg. Co., 2353 Spring Grove Ave., Cincinnati 25, Ohio.
Lewishon Sales Co., Inc., 4091 Dell Ave., No. Bergen, N. J.
Lindsay Structure, Inc., 5000 W. Dempster St., Skokie, Ill.
London Vault Co., London, Ohio. (Braces.)
Metalcraft Engrg. Corp., 1051 W. Peachtree St., N. E., Atlanta 5, Ga.
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
Midwest Body & Mfg. Div., Electographic Corp., S. Central St., Paris, Ill.
Miner, W. H., Inc., Rookery Bldg., Chicago, Ill. (Door hinges.)
Monroe Mfg. Co., 2325 S. Dort Highway, Flint 7, Mich. (Platforms.)
Parish Pressed Steel Corp., Robeson & Weiser Sts., Reading, Pa.
Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio. (Roof bows.)
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio.
Servwell Products Co., 6519 Euclid Ave., Cleveland 8, Ohio. (Fender braces and bolts.)
Youngstown Steel Car Corp., Niles, Ohio. (Dye-pressed channels, presswork.)

BONDERS, Brake Lining
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Bonding Equipment Corp., 533 40th St., Union City, N. J.
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. (Ovens.)
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.
Grizzly Mfg. Div. of Maremont Automotive Products, Inc., 700 W. Caroline St., Paulding, Ohio.
Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill.

75 new Mack B-60T tractors like these have just joined the large and famous Adley over-the-road fleet: 312 heavy-duty units, all Macks, that provide fast and dependable, 'round-the-clock service from New England to the Carolinas.



M. L. Adley, president of Adley Express Co., one of the leading and most successful Eastern operators serving the thriving Boston to Norfolk territory, says...



They know trucks and trucking. And the Adley brothers, Michael, Daniel and Ralph, all agree that there is nothing to match the economy and stamina of their Macks.

"FOR OUR PAY-OFF OPERATIONS ...it's **MACKS**"

"Our business is over-the-road hauling," says Mr. Adley. "It's the kind of operation where profits depend on getting top-notch performance from our trucks.

"And that's why we've just added 75 new Mack B-60T's to our fleet. In our 30 years' experience, we've found that for long distance hauling, Macks are the most dependable and economical trucks we can buy. Thanks to our Macks, we've been able to establish tight schedules everywhere and keep them.

"That's why we won't buy anything else but Macks for our over-the-road operations."

Mr. Adley is one of a long and

growing list of leading truckers who have found that for sheer earning power in a highly competitive field, *you just can't beat a Mack*. Your Mack dealer will be delighted to give you the names of Mack users in your area. Why not ask *them*? Mack Trucks, Inc., Plainfield, New Jersey. In Canada: Mack Trucks of Canada, Ltd.

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CCJ'S PRODUCT DIRECTORY

BONDERS—continued

Lapeer Mfg. Co., 3056 Davidson Rd., Lapeer, Mich.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Permafuse Corp., 675 Main St., Westbury, N. Y.
Westbrook Industries, Inc., 140 Malvern St., Newark 6, N. J.

BOOSTERS, BRAKE. See Brakes, Vacuum
BOOSTERS, STEERING. See Gears, Steering.
Booster Units

BOOTHS, Paint Spraying

Blanks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 70 Okner Parkway, Livingston, N. J.
Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.
Mahon Co., R. C., 6565 E. Eight Mile Road, Detroit 3, Mich.
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich.
Paasche Airbrush Co., 1909 Diversy Parkway, Chicago 14, Ill.
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich.
Schmig Industries, Inc., 29330 Sherwood St., Detroit 34, Mich.
Spray Engineering Co., 114 Central St., Somerville 45, Mass.
Young & Bertke Co., 2212 Breck St., Cincinnati 14, Ohio.

BORING BARS. See Tools, Cylinder Re-boring
BORING MACHINES. See Machines, Boring
BRAKE Drums. See Drums, Brake

BRAKE LEVERS, Emergency

Orschelin Brake Lever Mfg. Co., 335 N. Williams St., Moberly, Mo. (Emergency brake lever.)
Power Brake Equipment Company, 1632 S.E. 11th Ave., Portland 14, Ore.

BRAKE LINING. See Lining, Brake

BRAKE LINING GRINDERS. See Grinders, Brake Lining and Shoe

BRAKE LOCKS. See Locks, Brake, Hill Holding

BRAKE PARTS. See Parts, Brake

BRAKE RELINING MACHINES. See Machines, Brake Relining; also Bonders, Brake Lining

BRAKE SHOES. See Shoes, Brake

BRAKE VALVES. See Valves, Air Brake; Brakes, Air; Brakes, Emergency Systems and Valves

BRAKES, Air

Auto Specialties Mfg. Co., 648 Graves St., St. Joseph, Mich. (Disc.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Also accessory units for trucks and buses.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Midland Steel Products Co. (Power Brake Div.), 2641 E. Milwaukee Ave., Detroit 11, Mich.
Power Brake Equipment Company, 1632 S.E. 11th Ave., Portland 14, Ore.
Shuler Axle Co., Inc., Louisville, Ky.
Timken-Detroit Brake Div., Rockwell Spring & Axle Co., Ashtabula, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

BRAKES, Compression, Exhaust

Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.

BRAKES, Electric

Warner Brake & Clutch Co., Beloit, Wis. (Truck.)

BRAKES, Emergency, Systems & Valves

(See also Brakes, Air)
Airbrake Accessories, Inc., 155 N. Ada St., Chicago 7, Ill. (Valve.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.

Berg Mfg. & Sales Co., Inc., 1712-14 S. Michigan Blvd., Chicago 16, Ill.
Eveready Emergency Brake Co., Inc., Investment Bldg., Pittsburgh 22, Pa.
Fawick Brake Div., Fawick Corp., 5885 Loraine Ave., Cleveland 2, Ohio. (Hydro-Air dual system.)
George Mfg. Co., 10 W. Harvey St., Philadelphia, Pa. (Valve, check & line.)
K & B Mfg. Co., 17 E. Reno St., Oklahoma City, Okla.
Keehn-O Mfg. Co., 1709 Cleveland Ave., Santa Rosa, Calif. (Valve.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (System.)
The McVee Engineering Co., Corry, Pa.
Midland Steel Products Co., 2641 E. Milwaukee Ave., Detroit 11, Mich.
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. (Warning device.)
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
Robinson Products, Inc., 16550 Wyoming Ave., Detroit 21, Mich.
Seale, Homer T., 5330 Alhambra Ave., Los Angeles 32, Cal.
Taleo Engineering Co., Inc., 2685 State St., Hamden, Conn.
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum reserve tank.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Warner Electric Brake & Clutch Co., P. O. Box 620, Beloit, Wis.

BRAKES, Hydraulic

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. (Disc.)
Bendix Products Div., Bendix Products Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Martin Co., Glenn L., Baltimore 3, Md.
Timken-Detroit Brake Div., Rockwell Spring & Axle Co., Ashtabula, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

BRAKES, Mechanical

American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. (Disc.)
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

BRAKES, Trailer

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif. (Mechanical.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Midland Steel Products Co., Power Brake Div., 2641 E. Milwaukee Ave., Detroit 11, Mich.
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Mechanical, vacuum or air.)
Spencer Safford Loadcraft, Inc., Augusta, Kan.
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala. (Vacuum or air.)
Timken-Detroit Brake Div., Rockwell Spring & Axle Co., Ashtabula, Ohio. (Air and hydraulic.)

United Mfg. Co., 3637 W. 56th St., Cleveland 2, Ohio. (Hydraulic.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Air.)
Warner Brake & Clutch Co., Beloit, Wis. (Electric.)

BRAKES, Vacuum Power

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Midland Steel Products Co., Power Brake Div., 2641 E. Milwaukee Ave., Detroit 11, Mich.
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.

Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

BREAKAWAY VALVES. See Brakes, Emergency Systems and Valves

BREAKER ARMS. See Parts, Ignition

BREAKER POINTS. See Points, Ignition

BREAKERS, Circuit

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Bulldog Electric Products Co., 7610 Jos Campau Ave., Detroit 32, Mich.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
F & B Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Heinemann Electric Co., Pa. Ave. & Plum St., Trenton 2, N. J.
Lecce-Neville Co., 1374 E. 51st St., Cleveland 8, Ohio.
Littlefuse, Inc., 4757 Ravenswood Ave., Des Plaines, Ill.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex.
Rohden Mfg. Co., 4739 W. Montrose Ave., Chicago 41, Ill.
Spencer Thermostat Div., Metals & Controls Corp., 34 Forest St., Attleboro, Mass.
Square D Co., 6060 Rivard St., Detroit 11, Mich.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh, Pa.

BRUSHES, Carbon Removing

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Herold Mfg. Co., 3927 Clark Ave., Cleveland 9, Ohio.
Keystone Reamer & Tool Co., Millersburg, Pa.
Manufacturers Brush Co., 12501 Elmwood Ave., Cleveland, Ohio.
Miller Co., L. B., 394 State St., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Milwaukee Brush Mfg. Co., 2324 N. 30th St., Milwaukee 46, Wis.
Morris Co., C. W., 10628 Cloversdale Ave., Detroit 4, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland 14, Ohio.
Pittsburgh Plate Glass Co. (Brush Div.), 2221 Frederick Ave., Baltimore 29, Md.
Rineck-Mellwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Thor Power Tool Co., 175 State St., Aurora, Ill.
Wilco Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo.
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

BRUSHES, Fountain. See Washers, Fountain Brushes & Mops

BRUSHES, Generator, Horn and Starter

American Motor Products Co., Fond du Lac, Wis.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo. (Generator and starter)
Becker Brothers' Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. (Generator and starter.)
Carbone Co., Myrtle Ave., Bonton, N. J.
Echlin Mfg. Co., 220 East St., New Haven 5, Conn. (Generator and starter.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Generator and starter.)
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.

Another Fleet Reports

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"Ford replacement parts have meant more road time and less repair cost for our fleet," says T. F. Moser, Assistant Vice President—Maintenance of Commercial Motor Freight, Inc. "Our mechanics tell me that Genuine Ford Parts install quickly, because they fit right. And our books show that they last!"

Why not take a cue from the many fleets like Commercial Motor Freight, Inc. . . . and standardize on Genuine Ford Parts? That way you'll know you're getting replacement parts that have been built to the same high specifications as the *original* parts in your Fords. That's why they install so quickly and easily!

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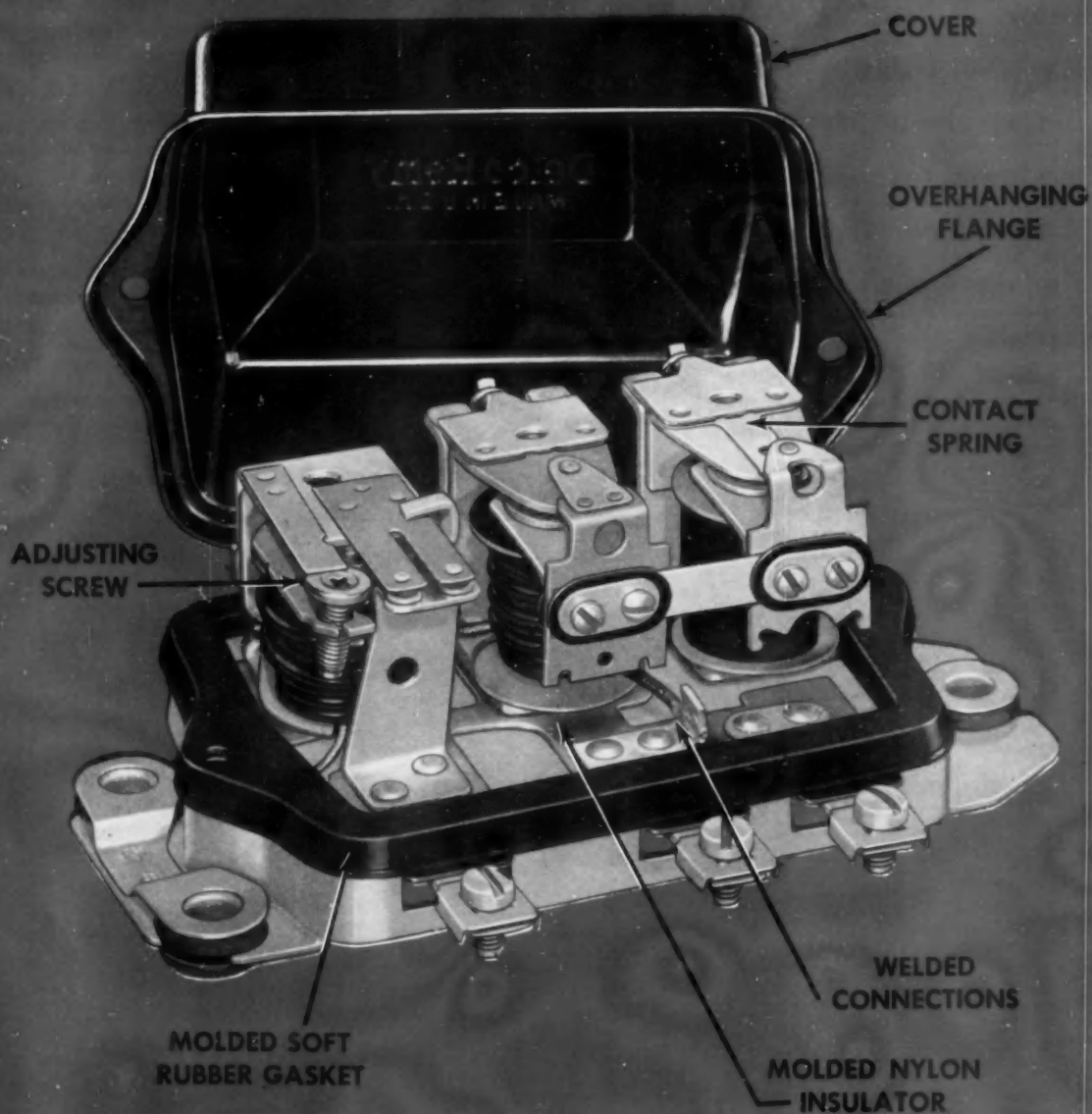
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DELCO-REMY ANNOUNCES NEW WATERPROOF STANDARD REGULATORS WITH IMPROVED PERFORMANCE

Better electrical performance and greater dependability in any weather are important user benefits found in Delco-Remy's new waterproof standard generator regulators, now available for general replacement use.

And here are the features that make them the *right* regulators for millions of Delco-Remy equipped cars and trucks.

- ① New overhanging one-piece formed-steel cover and mating base shed road splash . . . convenient attaching screws are *outside* the enclosed area. Molded soft rubber gasket seals out harmful oil and water vapors.
- ② Integral sleeves of molded nylon insulator form permanent seal around rivets—assure watertight base.
- ③ New, longer, more flexible armature contact spring on voltage regulator unit assures more positive closing of contact points for smoother operation.
- ④ Welded electrical connections, and highest quality tungsten and non-tarnishing precious metal contact points, assure minimum resistance, maximum durability.
- ⑤ Special fine thread screw-type controls allow easy, highly accurate adjustment of all three units.

Always replace with Delco-Remy waterproof regulators when you service Delco-Remy equipped cars and trucks. These improved regulators are available from your car or truck dealer or the United Motors System.

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CCJ'S PRODUCT DIRECTORY

BRUSHES—continued

International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. (Generator and starter.)
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Ohio Carbon Co., 12508 Beres Rd., Cleveland 11, Ohio.
P. & D. Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Generator and starter.)
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Generator and starter; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill. (Starter and generator.)
Sorensen Mfg. Co., P., 32-31 87th St., Woodside 77, N. Y. (Generator and starter.)
Speer Carbon Co., St. Marys, Pa.
Stackpole Carbon Co., Tannery St., St. Marys, Pa.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. (Generator and starter.)
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y. (Generator and starter.)
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Generator and starter.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 20, N. Y.

BRUSHES, WASHING, See Washers, Fountain Brushes and Mops.

BUFFERS, Portable, Electric

Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tools Co., 6 E. 44th St., New York 17, N. Y. "CP." (Pneumatic.)
Clark Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Thor Power Tool Co., 175 State St., Aurora, Ill.
Wilson, Inc., K. R., Arcade, N. Y.

BUFFERS, Tire, Electric

Albertson & Co., 2198 Lowell Ave., Sioux City, Iowa, "Sioux."
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Kehawke Mfg. Co., 718 S. Elliot St., Muncie, Ind.
Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif.
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

BULBS, See Lamps, Bulbs, Miniature, Incandescent

BUMPERS

Bath Co., Crril, Metal Form Div., 32280 Aurora Rd., Solon, Ohio.
Central Motors Co., 906 Austin Ave., Waco, Tex. (Rear, for Dodge trucks.)
Electric Auto-Lite Co., Toledo 1, Ohio.
Graves Mfg. Co., 200 Court St., Clinton, Ohio. (Bumper hitch.)

Houdaille Industries, Inc., Chicago Div., 1455 W. 38th St., Chicago 9, Ill.
Houdaille Industries, Inc., Detroit Div., 2660 E. Grand Blvd., Detroit 11, Mich.
Houdaille Industries, Inc., Huntington Div., 900 Ninth Ave., W., Huntington, W. Va.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. (Rear, for light trucks.)
Michigan Bumper Corp., 740 Ann St., Grand Rapids, Mich.
Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill. (Steel for trucks and buses.)
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.
Rheem Automotive Co., 4951 Alcoa Ave., Los Angeles 58, Calif.
Rockwell Spring & Axle Co., 843 Fourth Ave., Coraopolis, Pa.

BUSES

Available Truck Co., 2501 Elston Ave., Chicago, Ill. (Gasoline or Diesel.)
Beck & Co., C. D., Sidney, Ohio.
Blue Bird Body Co., Port Valley, Ga.
Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
Chevrolet Motor Div. of General Motors Corp., General Motors Corp., Detroit 2, Mich.
Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif. (Gasoline and Diesel.)
Dodge Div. Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich. (School.)
Federal Motor Truck Co., 834 N. Seventh St., Minneapolis 11, Minn.
Fitzjohn Coach Co., Muskegon, Mich.
Flexible Co., 326 N. Water St., Loudonville, Ohio.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill. (School.)
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J. (Gasoline and Diesel.)
Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Trolley coaches.)
Oneda Products Corp., Canastota, N. Y.
Reo Motors, Inc., 1331 S. Washington St., Lansing, Mich. (Gasoline and Diesel.)
St. Louis Car Co., 8000 N. Broadway, St. Louis 15, Mo. (Electric, also trolley coaches.)
Southern Coach Mfg. Co., Evergreen, Ala.
Studebaker-Packard Corp., Studebaker Div., 635 S. Main St., South Bend 27, Ind. (Chassis only.)
Superior Coach Corp., E. Kirby St. & D. T. & I. R. R., Lima, Ohio. (School.)
Wayne Works, Inc., 1500 N. F St., Richmond, Ind.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

BUSHINGS, See Bearings and Bushings

CABINETS, Accessories and Parts

Angle Steel Steel Co., 56 Oak St., Plainwell, Mich.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Ray Products, Inc., 3001 N. 16th St., Philadelphia 2, Pa.
Berger Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Bernard Franklin Co., Hedley & Bath Sts., Philadelphia 27, Pa.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.

CABLE, Brake Control, with Conduit

Alloy Mfg. Co., 3267 S. Shields Ave., Chicago 16, Ill. (Emergency.)
American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich. (Using "Tru-Loc" fittings.)
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Eis Automotive Corp., Middletown, Conn.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.

Midland Steel Products Co., Power Brake Div., 2641 E. Milwaukee Ave., Detroit 11, Mich.
Supco Div., Lisle Corp., 806 E. Main St., Clarinda, Iowa.

CABLE, Ignition, Starting and Lighting (In bulk, length on spools, rolls, etc.)

American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Berg Mfg. & Sales Co., 1712 S. Michigan Ave., Chicago 16, Ill. (Lighting for trailers.)
Champion Cable Co., 1805 E. 40 St., Cleveland 3, Ohio.
Cole-Herscoe Co., 20 Old Colony Ave., Boston, Mass.
Crescent Co., Pawtucket, R. I.
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich.
Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
Flexo Wire Div. of Copperweld Steel Co., Oswego, N. Y.
Freedom Products, Inc., 154 Nassau St., New York, N. Y.
Jordan Electrical Mfg. Co., 222 N. 2 St., Minneapolis 1, Minn.
Lenhart Mfg. Co., Hamburg, Pa.
Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
Ohio Parts Co., Theresa St. & Chontea Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio.
Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
Royal Electric Co., Pawtucket, R. I.
Sorensen Mfg. Co., P., 32-31 87th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Thompson-Neaylon Mfg. Co., 3551 S. Morgan St., Chicago 9, Ill.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
United Motors Service, General Motors Bldg., Detroit 2, Mich.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.
Walker Bros., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1201 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

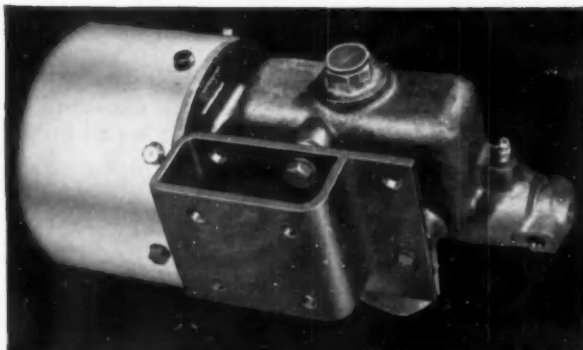
CABLES, SPEEDOMETER, See Speedometer Cables

CABLES, Storage Battery

(Complete with terminals)

American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Bowen "Seal Fast" Corp., 223 N. Pine St., Indianapolis 7, Ind.
Champion Cable Co., 1805 E. 40 St., Cleveland 3, Ohio.
Crescent Co., 20 Central Ave., Pawtucket, R. I.
East Penn Mfg. Co., Lyons Station, Pa.
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich.
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind.
Freedom Products, Inc., 154 Nassau St., New York, N. Y.
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
National Ignition Mfg. Co., 521 W. 23 St., New York 11, N. Y.
Packard Electric Div., General Motors, Dana St., Warren, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.

For safer air brakes, use these WAGNER AIR BRAKE COMPONENTS



Wagner Power Cluster... the key to safer air-over-hydraulic actuation

Stops up to 26,000 G. V. W. per axle on vehicles equipped with the proper heavy-duty hydraulic foundation brakes.

If you want to add air power to vehicles with standard hydraulic brakes the Wagner Power Cluster is the answer. This amazingly uncomplicated device can convert 100 p.s.i. of air pressure into 1500 p.s.i. of hydraulic pressure. It's safer too,

COMPACT, SIMPLE CONSTRUCTION—Power Cluster consists of a standard hydraulic master cylinder and a single piston air cylinder.

PROVIDES UP TO 1500 p.s.i. HYDRAULIC LINE PRESSURE—Hydraulic pressure is delivered in an unvarying amount of air pressure metered through the brake application valve.

NO EXTERNAL STRESSES—All braking stresses are balanced out within the self-contained unit.

NEGLECTIBLE FRICTION LOSSES—Efficiency is high because there is no linkage to increase friction loss.

BRAKE ADJUSTMENT INDICATOR—Power cluster "stroke travel indicator"

because it permits independent braking on each axle. Your mechanics don't have to be engineers to install the Wagner Power Cluster. It does away with leverage and power cycle calculations...special levers and brackets. Field installations are easy.

indicates the need for foundation brake lining clearance adjustment.

MINIMUM INVENTORY—Three standardized units provide for every trucking requirement.

SIMPLE FIELD INSTALLATION—No leverages or stresses to calculate. Simply replace vehicle master cylinder with power cluster of comparable size.

ACCESSIBLE LOCATION—The power cluster may be located in any accessible position on the vehicle chassis. It is easily protected from road splash and dirt.

SEPARATED HYDRAULIC SYSTEMS—Operational use of two power clusters provides hydraulic braking systems on each axle when required.



**HAND
CONTROL
VALVE**

A "self-compensating action" releases air pressure in direct proportion to hand pressure on handle...permits driver to apply any degree of braking action needed for safe, sure stopping...unit may be mounted on dash or steering column.



LOW PRESSURE INDICATOR
Warns if reservoir tank pressure should drop below the safe operating limit.



**AIR
STOP LITE
SWITCH**



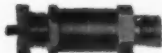
PRESSURE REDUCING VALVE
Used whenever necessary to control maximum delivered pressure at a value lower than pressure in main reservoir. It may be used with an auxiliary reservoir if a large volume of air at reduced pressure is required.



**SWITCH AND
BUZZER**



AIR GAUGE



**SAFETY
VALVE**

Wagner Electric Corporation 6470 PLYMOUTH AVENUE • ST. LOUIS 14, MO., U. S. A.

Wagner Air Brake Systems



LOCKHEED HYDRAULIC BRAKE PARTS and FLUID • NoRoL • CoMoX BRAKE LINING • AIR BRAKES • AIR HORNS • TACHOGRAPHS • ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES

cables to carburetors

CCJ'S PRODUCT DIRECTORY

CABLES—continued

Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Thompson-Neaylon Mfg. Co., 3551 S. Morgan St., Chicago 9, Ill.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Walker Bros., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

CABLES, Welding

(See also Hose, Welding)

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Crescent Co., 20 Central Ave., Pawtucket, R. I.
General Cable Co., 420 Lexington Ave., New York 17, N. Y.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Roebing's Sons Corp., John A., 640 S. Broad St., Trenton, N. J.
Tiveco Products Co., Boston at Mosley Sts., Wichita 1, Kan.
United Metal Craft Co., 800 Lowell St., Ypsilanti, Mich.

CABS, Truck Body, Wood and Metal

Autocar Div. of White Motor Co., Exton, Pa. (Metal; also sleeper.)
Automotive Industries Corp., Owendale, Mich. (Steel sleeper.)
Brandt, Inc., Charles T., Body Div., 201 N. Haven St., Baltimore 24, Md.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Metal; also sleeper.)
Couse Mfg. Inc., 300 Passaic St., Newark 4, N. J. (Armored.)
Crown Steel Products Co., Orville, Ohio. (Steel.)
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
McLaughlin Body Co., 2430 Third Ave., Mo-line, Ill.
Masterbilt—See Orrville Metal Specialty Co.
Montpelier Mfg. Co., Montpelier, Ohio.
Orrville Body Co., Orrville, Ohio. (Also sleeper.)
Orrville Metal Specialty Co., S. Elm St. & Penn Ave., Orrville, Ohio. (Steel sleeper; sole distributors to replacement trade, Benhoff Body & Equip. Corp., 2339 Scranton Rd., Cleveland 13, Ohio.)
Stolper Steel Products Corp., 300 Pilgrim Rd., Menomonee Falls, Wis. (Metal.)
Stoughton Cable & Body Co., 408 E. South St., Stoughton, Wis. (Sleeper.)
Timpte Bros., Inc., E. 40 Ave. & York St., Denver 5, Colo. (Steel sleeper.)
Truck Cab Mfrs., Inc., 1201 Finlay St., Cincinnati 14, Ohio. (Metal.)
Wichita Body & Equipment Co., 1926 N. Broadway, Wichita 12, Kansas. (Sleeper.)
Winter-Weiss Co., 2201 Blake St., Denver 5, Colo. (Steel sleeper.)
Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio. (Steel.)

CAGES, GUARDS, TIRE INFLATING, See Guards, Tire Inflating

CALIPERS and DIVIDERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass. (Calipers.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 475 S. Seymour St., Fond du Lac, Wis. (Micrometer calipers.)

Dixon, Inc., William, 32 E. Kinney St., Newark 1, N. J.
DoAll Co., 254 N. Laurel Ave., Des Moines, Iowa.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Millers Falls Co., Greenfield, Mass.
Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. (Dividers.)
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co. of America 10641 Haggerty Ave., Dearborn 1, Mich. (Calipers.)
Union Tool Co., 48 E. River St., Orange, Mass.
Woodworth Corp., C. B. Greene, N. Y. (Indicating Calipers.)

CANS, Gasoline

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill.
Dover Stamping Co., 427 Plymouth Ave., Fall River, Mass.
Edward Can Co., 2332 W. Byron St., Chicago 18, Ill.
Huffman Mfg. Co., Automotive Div., P. O. Box 310, Delphos, Ohio.
Justrite Mfg. Co., 2051 N. Southport Ave., Chicago 14, Ill.
Lawson Co., F. H., Evans & Whately Sts., Cincinnati 4, Ohio.
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif.

CANS, Oiling

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Lindseen, Inc., Gustave, Hayesville, N. C.
Nesco, Inc., 947 W. St. Paul Ave., Milwaukee, Wis.
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
Wall Mfg. Co., P., P. O. Box 71, Grove City, Pa.

CANS, Radiator Filling

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Lawson Co., F. H., Evans & Whately Sts., Cincinnati, Ohio.
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif.

CANVAS, See Fabric, Coated Cloth; also Covers, Trucks

CAPS, Gasoline Tank, Locking

Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Berkson Products Inc., 217 N. Desplains St., Chicago 6, Ill.
Eaton Manufacturing Company, Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Knight-Morley Corp., 312 Garfield Bldg., 4612 Woodward Ave., Detroit 1, Mich.
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Riley Products Corp., 2749 N. Lincoln Ave., Chicago 14, Ill.
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.
Stant Mfg. Co., Inc., 1620 Columbia St., Connerville, Ind.
Wheel Parts & Mfr. Co., 352 Fourth Ave., New York 10, N. Y.
Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohio.

CAPS, Oil Filler

Stant Mfg. Co., 1620 Columbia St., Connerville, Ind.

CAPS, Radiator

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Pressure.)
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
American Insulator Corp., New Freedom, Pa. (Composition.)
Badger Tool Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Berkson Products, Inc., 217 N. Desplains St., Chicago 6, Ill. (Pressure and non-pressure.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Pressure.)
Eaton Mfg. Co., Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio. (Pressure.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Pressure.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Pressure and underhood.)
Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.
Namac, Inc., 333 31st Ave., Bellwood, Ill.
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Rockford Metal Products Co., 716 Cedar St., Rockford, Ill.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Stant Mfg. Co., 1620 Columbia St., Connerville, Ind. (Standard and pressure.)
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

CAPS, Tire Valve

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Drudge Bros. Mfg. Co., 888 92nd Ave., Oakland 2, Calif. (Sole distributors of Tru-Plate Inc.)
Envir Mfg. Co., 1705 Lincoln St., Evanston, Ill. (Automatic.)
G. M. Co., Mfg. Inc. 13-08 43rd Ave., Long Island City, L. I., N. Y.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 N. Well St., Milwaukee 12, Wis.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

CARBON MONOXIDE INDICATORS, See Indicators, Carbon Monoxide
CARBON MONOXIDE REMOVING SYSTEMS, See Exhaust Gas Removing Systems

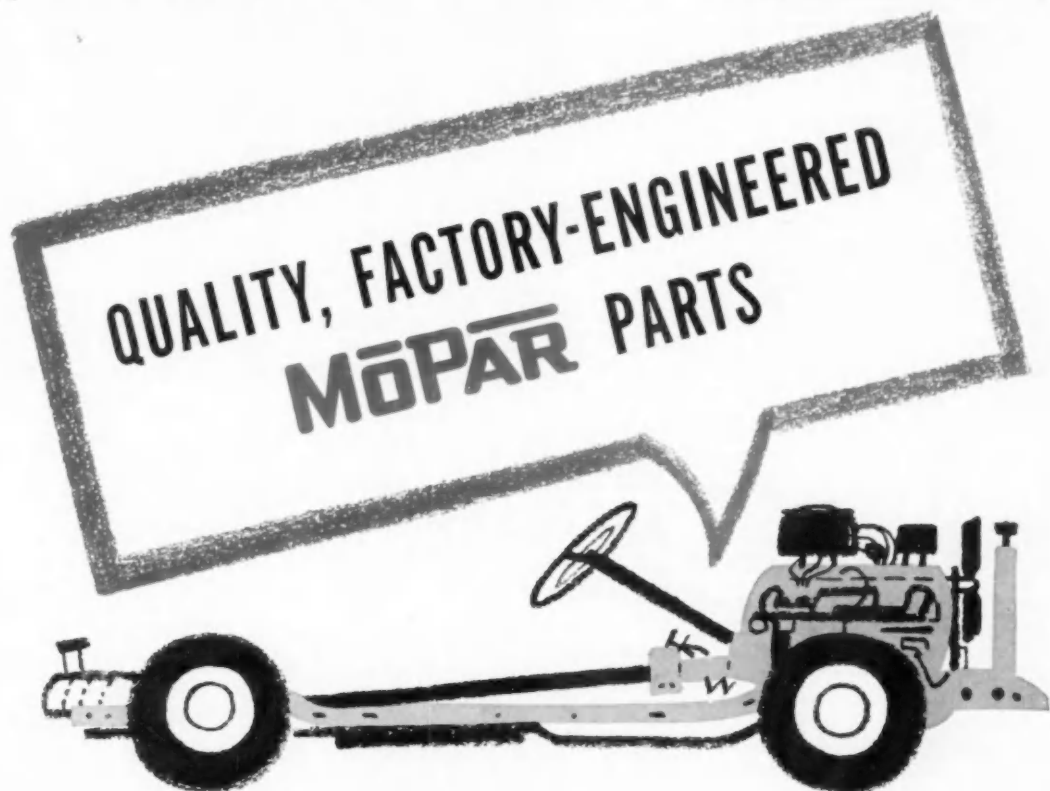
CARBURETORS, Butane, Propane & LP-Gas

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Calif.
Beam Products Mfg. Co., 3040 Roslyn St., Los Angeles 65, Calif.
Century Gas Equipment Co., 11188 Long Beach Blvd., Lynwood, Calif.
Dix Mfg. Co., 3447 E. Pico Blvd., Los Angeles 23, Calif.
Ensign Carburetor Co., 7010 E. Alameda St., Huntington Park, Calif.
J & S Carburetor Co., 2634 N. Beckley St., Dallas 2, Tex.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

CARBURETORS, Gasoline

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (Aircraft and automotive for replacement sales.)
Carter Carburetor Div. of ACF Industries, Inc., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (For equipment sales.)
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill.
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.

You'll get more economical mileage out of



Try factory-engineered MoPar parts in your actual operations, and let your own service records show you how they can help you get more economical mileage out of your fleet.

MoPar parts are engineered and factory-approved by Chrysler Corporation. They're inspected and packaged especially for Plymouth, Dodge, De Soto, Chrysler and Imperial cars and Dodge Trucks. They're built to new-car specifications. They're built to last.

MoPar parts are available in convenient service packages. They're easy to order, easy to store and inventory. And there's a "full line" of Chassis Service Packages covering all needs, including cooling and fuel systems, front axle, transmission, brakes, propeller shaft, seals and gaskets, exhaust, and springs.

They are available in your area—from Plymouth, Dodge, De Soto and Chrysler dealers and MoPar Parts Wholesalers.



CHRYSLER CORPORATION • PARTS DIVISION

carburetor parts to chargers

CCJ'S PRODUCT DIRECTORY

CARBURETORS—continued

Tillotson Mfg. Co., Toledo, Ohio.
United Motors Service, General Motors Bldg., Detroit 2, Mich.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

CARBURETOR PARTS

Automotive Research & Mfg. Co., 1085 Iris Place, Westbury, N. Y.
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (For replacement sales.)
Carter Carburetor Div. of ACF Industries, Inc., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (For equipment sales.)
Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Marvel-Schott Products Div., Borg-Warner Corp., Decatur, Ill.
Octa-Gane, 603 W. La Tunas Drive, San Gabriel, Calif. (Needles.)
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
Precision Automotive Components Co., 7500 Devonshire St., St. Louis 19, Mo.
Preferred Electric & Wire Co., Bush Term., Bldg. No. 8, Brooklyn 32, N. Y.
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 4, N. Y.
Simmons Mfg. Co., Ashland, Ohio.
Sorensen Mfg. Co., P. 32-31 57th St., Woodside 77, N. Y.
Tillotson Mfg. Co., 761 Berdan St., Toledo 12, Ohio.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

CARRIERS, Storage Battery

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Berkson Products, Inc., 217 N. Desplaines St., Chicago 6, Ill.
Bishman Mfg. Co., Osseo, Minn.
Central Equipment Co., 1112 S. Wabash Ave., Chicago, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
Duro Metal Parts Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Five Star Mfg. Co., Box 149, Clarksdale, Miss.
Houser Engrg. & Mfg. Co., Bluffton, Ind.
Kinspel Industries, Inc., Livingston, N. J.
Lock & Co., R. J., 843 N. Gay St., Baltimore, Md.
Murray Corp., E. Joppa Rd., Towson 4, Md.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Powercraft Corp., 2515 S. Wabash Ave., Chicago, Ill.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Thompson-Neaylon Mfg. Co., 3551 S. Morgan St., Chicago 9, Ill.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wells Mfg. Corp., 290 W. Division St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis.

CARRIERS, Tire

Bonser-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif. (Continental type kit.)
Coachcraft Ltd., 9915 Santa Monica Blvd., Hollywood 46, Calif.
Hell Co., 3000 W. Montana St., Milwaukee, Wis.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit." (For trucks.)
Industrial Steel Tank & Body Works, Inc., 2533 Fourth St., Berkeley 10, Calif.

Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill. (For trucks and trailers.)
Sudens Iron Works, George, Iowa. (Slide mounted, for pickup trucks.)

CEMENT, Cast Iron

(For repairing cracks in castings)
All-State Welding Alloys Co., 249-255 Ferris Ave., White Plains, N. Y.
Blue Seal Metals Co., Sandston, Va.
Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill.
Sauereisen Cements Co., Sharpsburg Station, Pittsburgh 15, Pa.
Watts-Wagner Co., 228 Frelinghuysen Ave., Newark 5, N. J.

CEMENT, GASKET, See Gasket Compounds

CEMENT, Rubber, Liquid

Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Co., Industrial Products Div., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M. 840 Cooper St., Camden, N. J.
Johns-Manville Dutch Brand Div., 7800 Woodlawn Ave., Chicago 19, Ill.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio.
Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.
Porter Mfg. & Supply Co., 2336 Sunset Blvd., Los Angeles 26, Calif. (Rubber to metal.)
Pyroil Co., 122 N. Main St., La Crosse, Wis.
St. Clair Rubber Co., 440 Jefferson Ave., E., Detroit, Mich.
Star-Tite Products Co., 9400 Steinway Ave., Cleveland 4, Ohio.
Union Bay State Chemical Co., 491 Main St., Cambridge, Mass.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Chemical Div. R. M. Hollingshead Corp., 840 Cooper St., Camden, N. J.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

CHAINS, Timing

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 1, Wis.
D & B Mfg. Co., 2312 S. Indiana Ave., Chicago 16, Ill.
Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.
Morse Chain Co. (Div. Borg Warner Corp.), Ithaca, N. Y. (Sole distributor to replacement trade, Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.)
Perfection Gear Co., 152nd St. & Pincennes Ave., Harvey, Ill.
Ramsey Chain Co., Troy Rd., Albany, N. Y.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.

CHAINS, Tire

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.
Auto Master Corp., 980 S. Bayshore Blvd., San Mateo, Calif.
Campbell Chain Co., York, Pa.
Columbus-McKinnon Chain Corp., Tonawanda, N. Y.

Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
Hodell Chain Co., Div. of National Screw & Mfg. Co., 8924 Cooper Ave., Cleveland 3, Ohio.
Lloyd Chain Mfg. Co., 2000 E. First St. Marysville, Mo.
McKay Co., 1005 Liberty Ave., Pittsburgh, Pa. (Steel.)
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo.
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.
Republic Steel Corp., Bolt & Chain Div., 1970 Carter Rd., Cleveland 13, Ohio.
Russell Mfg. Co. Inc., John M., 909 Rubber Ave., Naugatuck, Conn.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Southern Chain & Mfg. Co., 3207 Second Ave., Birmingham 4, Ala.
Taylor Chain Co., S. G., P. O. Box 599-C, Hammond, Ind.
Thomas Co., 1645 Hennepin Ave., Minneapolis 3, Minn.
Turner & Seymour Mfg. Co., 100 Lawton St., Torrington, Conn.
United States Chain Co., 2240 S. Lumber St., Chicago 16, Ill.
Western Chain Co., 1507 Belmont Ave., Chicago 13, Ill.

CHAINS, ADJUSTERS, See Adjusters, Tire Chain

CHARGERS, Battery

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Bulb and rapid types.)
Associated Equipment Corp., 5147 Natural Bridge Ave., St. Louis 15, Mo. (Rapid and slow types.)
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo. (Bulb and rapid types.)
Berg-Gibson Mfg. Co., 817 E. 17 St., Kansas City 8, Mo. (Rapid type.)
Blitz Electric Co., 5713 Wentworth Ave., Chicago 21, Ill. (Bulb and rapid types.)
Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson 3, N. J.
Christie Electric Corp., 3410 W. 6th St., Los Angeles 43, Calif. (Bulb and rapid types.)
Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio. (Motor generator type.)
Electric Service Systems, Inc., 1330 Quincy St. N.E., Minneapolis 13, Minn.
Exide Automotive Div., Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa. (Rapid and slow types.)
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa. (Rapid and slow types.)
General Electric Co., Apparatus Sales Div. 1 River Rd., Schenectady 5, N. Y. "Tungar." (Bulb and rapid types.)
H & H Products Mfg. Co., P. O. Box 2333 Terminal Annex, Los Angeles 54, Calif. (Rapid type.)
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J. (Bulb and rapid types.)
Jordan Electric Mfg. Co., 222 N. 2 St., Minneapolis 1, Minn. (Bulb and rapid types.)
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Rapid and slow types.)
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill.
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Rapid type.)
Motoralide Corp., 2400 Emerald St., Phila. 25, Pa.
Motor Generator Corp., Troy, Ohio. (Motor generator type.)
Peer, Inc., Charger Div., 1200 Milton St., Benton Harbor, Mich.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Put Battery Charger Co., 1297 Castle St., Dallas, Texas.
Quick Charge Inc., 170 N. E. 10th St., Oklahoma City, Okla. (Rapid and slow types.)
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. (Bulb and rapid types.)
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmore, Ohio. (Bulb rapid & selenium types.)

Salesmen give 'em a rough time

*How Superior Tea and Coffee Company
gets best performance from its trucks
by using STANOLUBE HD-M Motor Oil*



Jerry Bocek (right) and Jim Phelps, Standard automotive engineer check dip stick on one of Superior Tea and Coffee units. Jim Phelps has more than 29 years experience with Standard—aviation as well as automotive. Jim knows lubrication, is well qualified to give customers technical help on lube problems.

This old, established Chicago coffee company has 60 trucks—panel, sedan delivery and station wagon—plus some executive cars. These vehicles average 2,200 to 2,500 miles per month. Service includes long haul, country driving with hot engine operation as well as start-stop city driving with plenty of idling. Conditions are made more complex because operators are route salesmen not truck drivers. Jerry Bocek, the Superior shop superintendent, is the one who has to worry about maintenance, drivers don't. Jerry uses one motor oil for all units—STANOLUBE HD-M—and keeps them in top operating condition.

STANOLUBE HD-M Motor Oil has the ability to give superior service over a wide range of operating conditions. It helps protect the engine parts regardless of the rough treatment from the drivers. It can do these things because it is an oil designed for severe service. Oil is refined from highest quality base stock. Special additives selected by Standard have been added. These additives retard oil oxidation, minimize formation of piston and ring deposits, prevent formation of excessive varnish and sludge and prevent corrosive attack on bearing metals.

Get this high quality lubrication for your trucks. Get the facts about STANOLUBE HD-M Motor Oil from your Standard Oil automotive lubrication specialist. There's one nearby you in any of the 15 Midwest or Rocky Mountain states. Or write Standard Oil Company, 910 South Michigan Avenue, Chicago 80, Illinois.

Quick facts about STANOLUBE HD-M Motor Oil

- 1 Refined from highest quality solvent extracted, base stocks.
- 2 Contains special additives that prevent bearing corrosion, reduce piston varnish and keep rings free to seal against blow-by.
- 3 Contains still other additives that reduce wear on heavily stressed parts.

Going over the lube schedule. Jim Phelps and Jerry Bocek hear from Standard's Tom Farrell. Tom, too, is an experienced automotive lube specialist. He has six years experience in such work. He has a degree in engineering, is a graduate of the Standard Oil Sales Engineering School.



STANDARD OIL COMPANY
(Indiana)

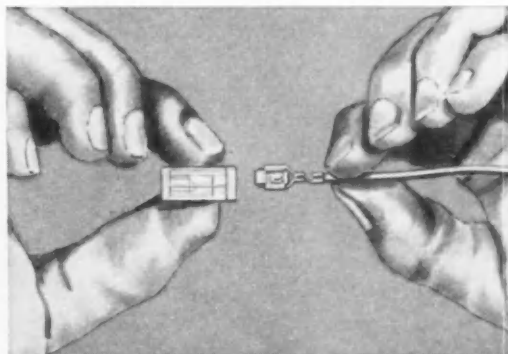
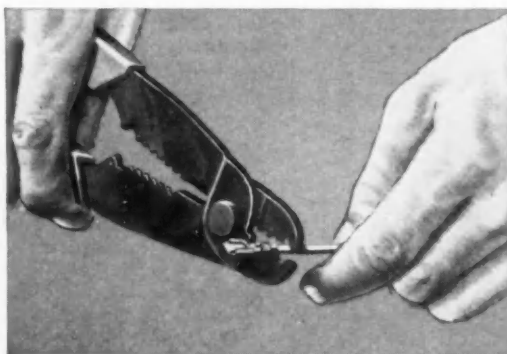


Make fast, easy wiring repairs on late model vehicles

- *Twenty-four items for wide service coverage*
- *All parts are identified*
- *Application data included*
- *Handy case has space for crimping pliers*

Packard Electric's 4004 Snap Fast connector kit contains original equipment parts used on over half of all the automotive vehicles produced today. The compact kit is sectionalized to keep parts separate and readily available without confusion. And it's built strong, for long wear.

The new Packard Electric connectors are all easily attached with terminal crimping pliers. They make quick, easy repairs and give you factory-type push-together connections that don't shake loose in service. Order a kit from your jobber today. It's another Packard exclusive, designed for your convenience.



Look how easy it is!

Instruction sheet identifies the proper part. Terminal then slides easily into insulator and connector is ready to snap on. Job finished!

with new . . .



Buy the line of wiring easiest to stock
and install . . . *Packard Electric*

Warren, Ohio



"Live Wire" division of General Motors

chucks to cleaners

CCJ'S PRODUCT DIRECTORY

CHARGERS—continued

Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Rapid type.)
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. (Selenium bulb and rapid types.)
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Motor generator type; copper oxide.)
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st., Cleveland 1, Ohio. (Bulb and rapid types.)
Wilson, Inc., K. R., Arcade, N. Y. (Bulb and rapid types.)

CHUCKS, Air, Tire Inflating

Aerac Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Amesco, Inc., 145 S. Monterey Ave., Villa Park, Ill.
Barmotive Products, Inc., 440 Peralta Ave., San Leandro, Calif.
Bridgeport Brass Co., 39 Grand St., Bridgeport 2, Conn.
Coronet Parts Mfg. Co., 883 Elton St., Brooklyn 8, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Drugs Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors, Tru-Plate, Inc., 888 92nd Ave., Oakland 3, Calif.)
G. M. Co. Mfg., Inc., 18-08 43rd Ave., Long Island City, L. I., N. Y.
Peterson & Russell, Inc., 501 W. Liberty St., Springfield, Ohio.
Planet Metal Products Corp., 964 Dean St., Brooklyn 33, N. Y.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 33, N. Y.
Wood Company, John H., Broadway & Woods St., Muskegon, Mich.

CHUCKS, Wheel

Calumet Steel Castings Corp., 1642 Summer St., Hammond, Ind.

CIRCUIT BREAKERS, See Breakers, Circuit

CLAMPS, Battery Hold Down

Berkson Prods., Inc., 217 N. Desplaines St., Chicago 6, Ill.
Bishman Mfg. Co., Oaseo, Minn.
Callanan Mfg. Co., 221 Summer St., Lynn, Mass.
Champ-Items, 6191 Maple Ave., St. Louis 14, Mo.
Cuyahoga Spring Co., 10262 Berea Rd., Cleveland 2, Ohio.
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.
Lock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Standard Motor Products, Inc., 57-18 Northern Blvd., Long Island City 1, N. Y.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

CLAMPS, Brake Cylinder, Hydraulic

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Mueck-Mellwaine, Inc., 16 Hudson St., New York, N. Y.
Supeco Div., Lisle Corp., 805 E. Main St., Clarinda, Iowa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilson, Inc., K. R., Arcade, N. Y.

CLAMPS, Brake Lining

Adjustable Clamp Co., 425 N. Ashland Ave., Chicago 22, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio.

Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Cal.

CLAMPS, Hose

Attwood Brass Works, Inc., 303 Douglas St., N. W., Grand Rapids, Mich.
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
American Stamping Co., 810 E. Burnham St., Battle Creek, Mich.
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
Arasco Mfg. & Sales Co., 451 10th Ave., New York 18, N. Y.
Breeze Corps., Inc., 700 Liberty Ave., Union, N. J.
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.
Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y.
Central Equipment Co., 1112 S. Wabash Ave., Chicago, Ill.
Champ-Items Inc., 6191 Maple Ave., St. Louis 14, Mo.
Clancy, Inc., J. R., 1010 W. Belden Ave., Syracuse, N. Y.
Corbin Hose Clamp, Div. American Hardware Corp., 102 Washington St., New Britain, Conn.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co., Reliance Div., 25 Charles Ave., S.E., Massillon, Ohio.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Radiator; "Everhot" heater.)
Garrett Co., George K., D & Tioga Sts., Philadelphia 34, Pa.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio.
Ideal Corp., 435 Liberty Ave., Brooklyn 1, N. Y.
Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
Lock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Marman Products Co., 11214 Exposition Blvd., Los Angeles 64, Calif.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 33, N. Y.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Tinnerman Products, Inc., 8700 Brookpark Rd., Cleveland, Ohio.
Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.
United Steel & Wire Co., 27 Fonda Ave., Battle Creek, Mich.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., N. Y. 22, N. Y. (Heater.)
Wittek Mfg. Co., 4305 W. 24th Place, Chicago 23, Ill.

CLEANERS, Air, Carburetor

AC Spark Plug, The Electronic Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Bonzer-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.
Cyclone Filter Corp., 4401 W. North Ave., Chicago 39, Ill.
Dollinger Corp., 29 Center Pk., Rochester 2, N. Y.
Donaldson Co., 666 Pelham Blvd., St. Paul 14, Minn. (Oil.)
Fram Corp., East Providence 16, R. I.
Houdaille Industries, Inc., North Chicago Div., 1900 Foss Park Ave., North Chicago, Ill.
Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.
Purolator Prods., Inc., 970 New Brunswick Ave., Rahway, N. J.

United Specialties Co., United Air Cleaner Div., 9705 Cottage Grove Ave., Chicago 28, Ill. (Oil.)
Vortex Co., 121 S. Alexander Ave., Claremont, Cal. (Oil bath.)

CLEANERS, Air, Crankcase Breather

AC Spark Plug Div., The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Fram Corp., East Providence 16, R. I.
Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.

CLEANERS, Carburetor, Chemical

Bruhl & Co., 2939 Columbia Ave., Indianapolis 7, Ind.
Cholden Mfg. Co., 331 East St., New Haven, Conn.
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass.
Delta Chemical Co., 682 S. Cox St., Memphis 1, Tenn.
Drew & Co., E. F., Automotive Chemicals Div., 15 E. 26th St., New York, N. Y.
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.
Fine Organics, Inc., 211 E. 19th St., New York 2, N. Y.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.
Glaten Co., 13 Barnard St., Hillsdale, Mich.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Kelite Corporation, 1250 N. Main St., Los Angeles 12, Calif.
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Luboid Co., 3270 S. Third St., Milwaukee 7, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Oakite Products, Inc., 19 Rector St., New York, N. Y.
Pennsylvania Refining Co., Gomout Div., 2686 Lisbon Rd., Cleveland 4, Ohio.
Petroleum Solvents Corp., 531 Madison Ave., New York 17, N. Y.
Rust Master Chemical Corp., 50 Creighton St., Cambridge, Mass.
Service Supply Co., 1115 Seventh St., Denver 2, Colo.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
United States Avex Co., 1350 Maple St., Niles, Ohio.
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.

CLEANERS, CHEMICAL, See Solvents, Oil, Carbon & Grease Removing

CLEANERS, COOLING SYSTEMS, See Flushers, Radiator and Block, Portable.

CLEANERS, DIFFERENTIAL and TRANSMISSION, See Flushers, Differential and Transmission

CLEANERS, Driveway & Floor, Cement

Carey Mfg. Co., Philip Lockland, Cincinnati 15, Ohio.
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Flor-Dry Co., 181 University Ave., St. Paul 4, Minn.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Magnus Chemicals Co., Inc., 38 South Ave., Garwood, N. J.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Oil-Dri Corp. of America, 520 N. Michigan Ave., Chicago, Ill.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.
Philadelphia Quartz Co., 1146 Public Ledger Bldg., 6th & Chestnut Sts., Philadelphia 6, Pa.
Rhodes & Co., James H., 153 W. Hubbard St., Chicago 10, Ill.
Speedi-Dri Corp., Menlo Park, N. J.



NEW PLASTIC RIBS GIVE GREAT MECHANICAL STRENGTH



New Plastic Discovery

**gives batteries
more cranking power**

Don't be like Henderson and get stuck with an inferior battery, hub-cap deep in winter drifts. Just be sure, when you buy batteries for your trucks, that they are equipped with U. S. Sentinel Separators.

U. S. Sentinel Battery Separators give greater cranking speed even in cold weather. Made of a new plastic discovery, these separators are extremely resistant to rotting and oxidation. They are your best protection against battery "shorts". U. S. Sentinel Separators are unaffected by overcharging, heat, battery acids or plate pressures.

When you buy batteries be sure to look for the Sentinel tag right on the post. Another quality product of United States Rubber, Rockefeller Center, New York 20, N. Y.



Electrical Wire & Cable Department

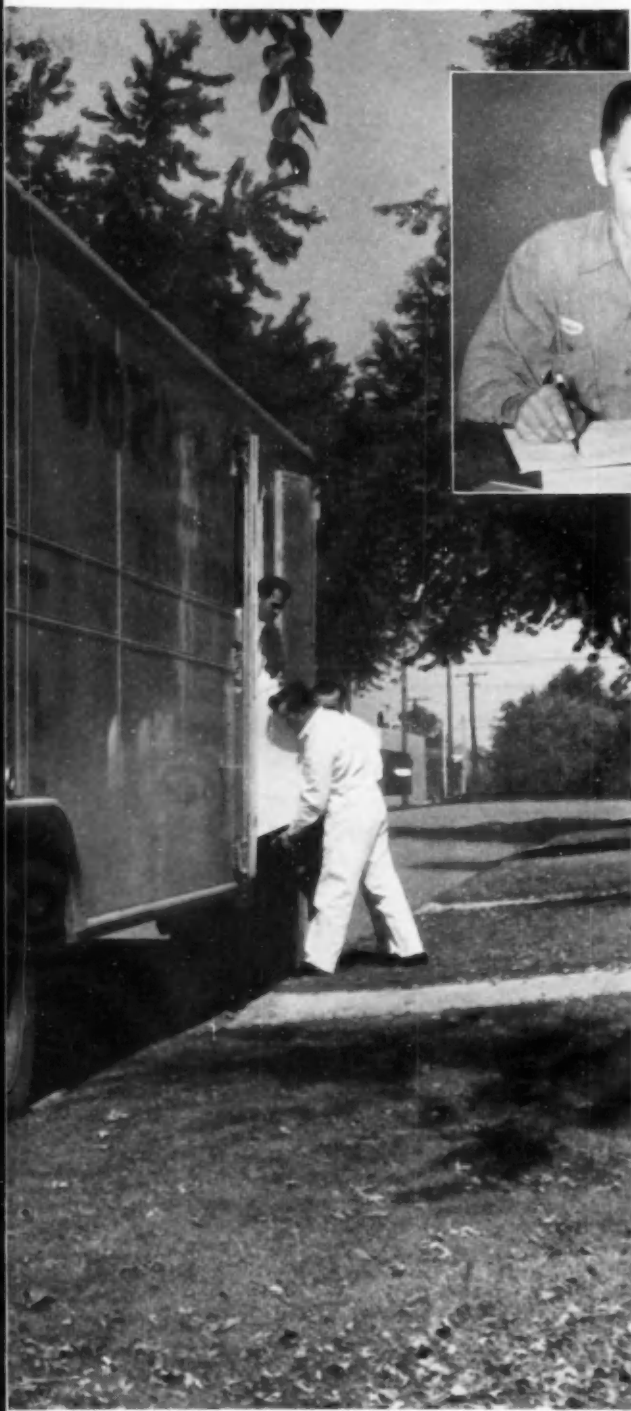
United States Rubber

"After trying 'em all,



AC SPARK PLUG  THE ELECTRONICS DIVISION OF GENERAL MOTORS

we go 100% AC!"



says

GORDON MONTCALM!

Gordon Montcalm, superintendent of maintenance for John F. Ivory Storage Co., Inc., one of the largest independent van lines serving the United States, Canada and Alaska . . . specifies AC Spark Plugs and Oil Filters for all Ivory equipment—and, of course, insists on ACs in his personal car!

There's hardly a highway or road in the country not traveled by John F. Ivory trucks. 200 units keep on the move from coast to coast averaging up to 300 miles per day per unit, and piling up a multimillion-mile total every year.

Long runs! Short runs! Ivory trucks make them all. Every run is different. Every schedule is tight. All that adds up to some special maintenance problems.

As Gordon Montcalm puts it—

"That's why after trying a wide variety of spark plugs we standardized on AC more than two years ago. With ACs we get greater economy, and long life, with few replacements at other than standard service periods.

"We are also specifying AC Oil Filters, and are equally pleased with the results we are getting."

Fleet records in every part of the country prove that there are no finer spark plugs and oil filters than ACs. Put them to work in your fleet, too!



COMMERCIAL
SPARK PLUGS



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cleaners to cocks

CLEANERS, Floor—continued

Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

CLEANERS, Engine, Chassis and Fender

Aerol Products Co., 69 Wesley St., South Hackensack, N. J.
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich. (Steam.)
Chem-Therm Mfg. Co., Pasadena, Calif.
Circo Equipment Co., 120 Central Ave., Clark (Rahway), N. J.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hot vapor spray; also portable steam.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Curran Corp., Lawrence, Mass. (Cylinder head cleaning kits.)
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Dutton-Lainson Co., Mfg. Div., Hastings, Nebr. (Engine and chassis.)
Eclipse Fuel Engineering Co., 1111 Buchanan St., Rockford, Ill.
Ewing Mfg. Co., 2545 N. W. Tenth St., Oklahoma City, Okla. (Steam.)
Friend Mfg. Co., East Ave., Gasport, N. Y.
General Equipment Mfg. Co., 35 E. Runyon St., Newark 5, N. J.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa.
Hydro-Air Cleaning Systems Inc., 11311 Miles Ave., Cleveland 5, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif. (Steam.)
Magnus Chemical Co., 185 South Ave., Garwood, N. J. (Steam guns.)
Malabary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Oakite Products, Inc., 19 Rector St., New York 6, N. Y. (Steam Guns, Sprayers.)
Practical Mfg. Co., 2840 Fourth Ave. S., Minneapolis 8, Minn.
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. (Steam.)
Sellers Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.
Siebring Mfg. Co., 182 Main St., George, Iowa. (Steam.)
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Texas.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Turbo Machine Co. (Div. of Dextdale Hosiery Mills), 840 W. Main St., Lansdale, Pa. (Steam.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Vapor Car Heating Co., 4501 W. 16th St., Chicago, Ill.

CLEANERS, Hand

Banite Co., Banite Bldg., Buffalo 4, N. Y.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.

CLEANERS, Metal

(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil, Carbon, Grease and Detergents)
Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Aldridge Chemical Oils, Inc., 3401 W. 140th St., Cleveland 11, Ohio.
American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa.
Anti-Rust Corp., 815 E. 91st St., New York, N. Y.
Bruce Products Corp., 500 N. West St., Howell, Mich.
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio.
Caloene Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J.
Cee-Ree Chemical Co., 9520 Ceebee Drive, Downey, Calif.
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.

Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio.
Dearborn Chemical Co., Merchandise Mart Plaza, Chicago 54, Ill.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Du Bois Co., 1120 W. Front St., Cincinnati 2, Ohio. "Dyna Sprax," "Sprax AC," "Blast."
du Pont de Nemours & Co., E. I. Electrochemicals Dept., Wilmington 98, Del.
du Pont de Nemours & Co., E. I. Grasselli Chemical Dept., du Pont Bldg., Wilmington 98, Del. (Alkaline and acid.)
Ethonne, Inc., 442 Elm St., New Haven 11, Conn.
Farrelloy Co., 1243 N. 26th St., Philadelphia 21, Pa.
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
Homestead Valve Mfg. Co., Hypressure Jenny Div., Narrows Run Rd., Coraopolis, Pa.
Hooker Electrochemical Corp., 4746 Buffalo Ave., Niagara Falls, N. Y.
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lake Erie Mfg. Co., 192 Chicago St., Buffalo, N. Y.
Lavo Co. of America, 1243 N. 5th St., Milwaukee 12, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Manufacturers Processing Co., 1360 Hilton Rd., Ferndale 20, Mich.
Metal Wash Machinery Corp., 901 N. Ave., Elizabeth, N. J.
Mitchell-Bradford Chemical Co., Wampus Lane, Milford, Conn.
Nelson Chemical Co., 6564 Benson St., Detroit 7, Mich.
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich. "Alkalume."
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Panther Chemical Co., P.O. Box 711, Ft. Worth, Texas.
Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich.
Pennsylvania Refining Co., Rutler Savings & Trust Bldg., Butler, Pa.
Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Phila. 2, Pa.
Philadelphia Quartz Co., 1146 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.
Quick Charge, Inc., 1750 N. E. 10th St., Oklahoma City 17, Okla.
Ranschoff, Inc., N. North 5th St. & Ford Blvd., Hamilton, Ohio. (Ultrasonic.)
Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Rossaul Co., 170 Fifth Ave., New York 10, N. Y.
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif.
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

CLEANERS, Radiator

Aerol Products Co., Wesley St., South Hackensack, N. J. (Hot.)
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb. (Hot.)
Magnus Chemical Co., 185 South Ave., Garwood, N. J.

CLEANERS, Spark Plug

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Electric Auto Lite Co., Toledo 1, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

CLEANERS, STEAM. See Cleaners, Engine, Chassis and Fender

CLEANERS, TANK. See Washers, Metal Parts

CLIPS, Spring

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.
Cuyahoga Spring Co., 10252 Berea Rd., Cleveland 2, Ohio.
Davis Auto Equipment Co., 119 N. 8rd St., Reading, Pa.
Handy Button Machine Co., 2255 S. Rockwell St., Chicago 8, Ill. (Upholstery.)
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Houser Engrs. & Mfg. Co., Bluffton, Ind.
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Seaboard Coil Spring Div. Associated Spring Corp., 15001 S. Broadway, Gardena, Calif.
Service Spring Co., Box 638, Indianapolis 6, Ind.
Triangle Auto Spring Corp., Maloney Rd. & B&O RR., Dubois, Pa.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

CLUTCHES

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.
Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 38, Ill.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Truck and bus.)
Easton Mfg. Co., Dynamic Div., 3307 14th Ave., Kenosha, Wis. (Eddy current.)
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Lipe-Rollway Corp., 805 Emerson Ave., Syracuse 4, N. Y. (Heavy duty.)
Long Mfg. Div., Borg-Warner Corp., 12501 Dequindre St., Detroit, Mich.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill. (Truck, tractor and bus.)

CLUTCH ALIGNMENT TOOLS. See Tools, Clutch Alignment

CLUTCH FACINGS. See Facings, Clutch

CLUTCH PARTS. See Parts, Clutch

CLUTCH PLATES. See Plates, Clutch

CLUTCH REBUILDING MACHINES. See Machines, Clutch Rebuilding

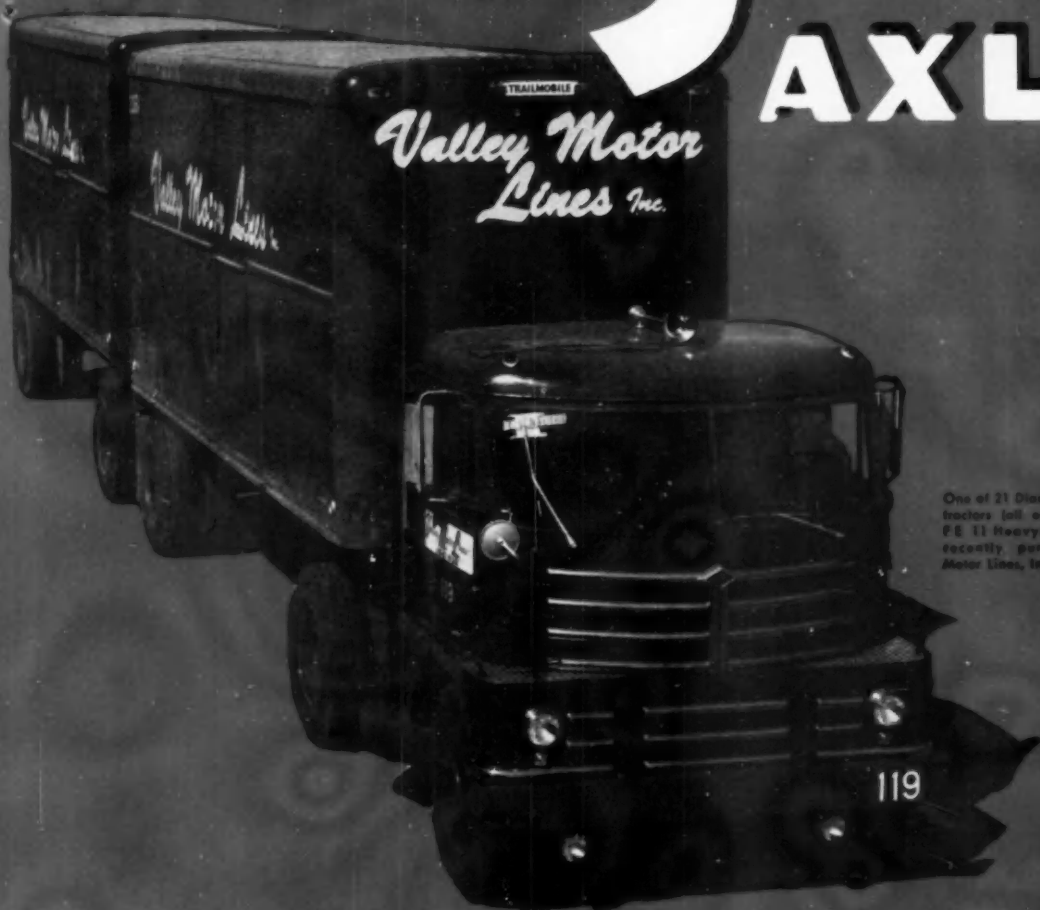
COCKS, Pet, Drain, Gasoline, Air, etc.

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Drain.)
American Brass & Iron Co., 6500 Georgia Ave., Detroit 11, Mich.
Anderson Brass Co., 100 S. Campbell Ave., Detroit 8, Mich.
Commonwealth Brass Corp., 5835 Commonwealth Ave. & G. T. R. R., Detroit 8, Mich. (Drain.)
Consolidated Brass Co., 2019 N. Tryon Ave., Charlotte 6, N. C.
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.



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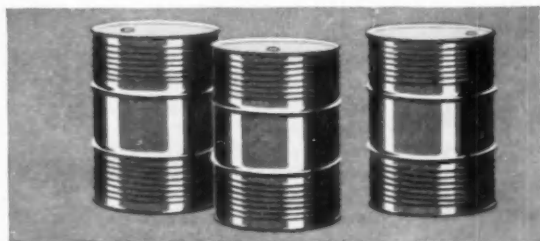


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FOR FLEET OPERATORS

MAGNOLIA PETROLEUM COMPANY, GENERAL PETROLEUM CORPORATION

COMMERCIAL CAR JOURNAL, November, 1956

coils to compounds

CCJ'S PRODUCT DIRECTORY

COCKS, Pet—continued

Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
Lincoln Brass Works, 2067 12th St., Detroit 16, Mich.
Loock & Co., R. J., 843 N. Gay St., Baltimore, Md.
Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio.
Nauman Mfg. Corp., R. F., 525 Michigan Ave., Buffalo 3, N. Y.
Velvac, Inc., 3530 W. Pierce St., Milwaukee 16, Wis.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

COILS, Ignition

Aerovox Corp., Crowley Div., 1 Central Ave., West Orange, N. J.
American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 8, Mo.
Crumbliss Mfg. Co., 3830 N. Podlin Drive, Franklin Park, Ill.
D. & M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
Electric Auto-Lite Co., Toledo, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Regular and high speed.)
Freeco Products, Inc., 154 Nassau St., New York, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.
Kem Mfg. Co., 20-21 Dagaraw Rd., Fairlawn, N. J.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles 1, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
New York Coil Co., 42 Second Ave., Phoenixville, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
O.S.M. Electric Corp., 6209 Hamilton Ave., Detroit 2, Mich.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorenson Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
United Motors Service, General Motors Bldg., Detroit, Mich.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wico Electric Co., 42 Phelon Ave., West, Springfield, Miss.

COIL TESTERS—See Instruments, Electrical Circuit Testing

COMBUSTION ANALYZERS—See Analyzers, Combustion

COMPOUNDS, Battery Terminal Anti-Corrosive

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Arso Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
McLaughlin Oil Co., 3750 E. Livingston Ave., Columbus, Ohio
Noco Co., Box 783, Cleveland 22, Ohio.
Pep Mfg. Co., 93 W. 42nd St., New York, N. Y.
Radiator Seal Co., 125 Stutman St., Council Bluffs, Iowa.
Warehouse Distributing Co., 2810 N. 19th St., Philadelphia 40, Pa.
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.

COMPOUNDS, Brake Bonding

Ciba Co., 627 Greenwich St., New York 14, N. Y.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Permafuse Corp., 675 Main St., Westbury, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

COMPOUNDS, CAR WASHING, See Detergents, Car Washing; also Soaps, Car Washing.

COMPOUNDS, Crankcase Sledge Removing

Alox Corp., Buffalo Ave. & Iroquois St., Niagara Falls, N. Y.
Celco Corp., 110 E. 42nd St., N. Y. 17, N. Y.
Curran Corp., S. Canal St., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.
Glisten Co., 18 Barnard St., Hilldale, Mich.
Gunk Chicago Co., 630 N. Harlem Ave., River Forest, Ill.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
Kano Labs., 1000 S. Thompson La., Nashville 11, Tenn.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Lubaid Co., 155 E. Kilborn St., Milwaukee 1, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Moly Motors Products, 1155 Broadway, New York, N. Y.
National Refining Co., Standard Bldg., Cleveland 1, Ohio.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Quaker Oats Co., Chemical Div., Chicago, Ill. "Purfural."
Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.
Rust Master Chemical Corp., 56 Creighton St., Cambridge, Mass.
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.
White & Bagley Co., 100 Foster St., Worcester 8, Mass.

COMPOUNDS, Metal Testing

(To visually locate cracks, flaws or porosity in metal)

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Magnasux Corp., 7300 W. Lawrence Ave., Chicago 31, Ill.
Turco Products, 6135 S. Central Ave., Los Angeles 1, Calif.

COMPOUNDS, Radiator & Block Repair

du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, Wilmington 98, Del.
Goodrich Co., B. F., 500 S. Main St., Akron, 18, Ohio. (Capsules.)
Hollingshead Corp., R. M., 840 Cooper St., Camden 2, N. J.
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Lusco Inc., 5915 Bonna, Cleveland, Ohio.
Miller Mfg. Co., 1100 N. 32nd St., Camden 5, N. J.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Producers, Ltd., 915 Fowler Ave., Evanston, Ill.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Sodrin Corp., 2746 McGee Trafficway, Kansas City, Mo.
Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.
Tinner Products Co., 800 Borden Ave., Sycamore, Ill.
Vernick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich.

COMPOUNDS, RADIATOR RUST PREVENTING, See Rust Preventatives, Cooling System

COMPOUNDS, Rubbing and Polishing

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Brown Co., Andrew, 5431 District Blvd., Los Angeles 22, Calif.
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.
Glisten Co., 18 Barnard St., Hilldale, Mich.
Goodison Mfg. Co., Rochester, Mich.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.
Kammel Prods. Corp., 1619 Hart Place, Brooklyn 24, N. Y.
Ken-nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Mantong Mfg. Co., 3000 Middlefield Rd., Redwood City, Calif.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Sherwin-Williams Co., 191 Prospect Ave., N. W., Cleveland 1, Ohio.
Simeniz Co., 2100 Indiana Ave., Chicago 16, Ill. (Polishing.)
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich.
Tumble Laboratory, J. A., 423 S. Hanover St., Baltimore 1, Md.
Warehouse Distributors Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wilson Imperial Co., 115 Chestnut St., Newark 5, N. J. (Rubbing.)

COMPOUNDS, Tire Repair

American Grease Stick Co., Muskegon, Mich. (Tubeless.)
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Sole distributors, Monkey Grip Sales Co., 6320 Harry Hines Blvd., Dallas 2, Tex.)

association directory

NATIONAL ASSOCIATIONS

AMERICAN ASSN. OF STATE HIGHWAY OFFICIALS (1914), 917 National Press Bldg., Washington 4, D. C., A. E. Johnson, Executive Sec.

AMERICAN AUTOMOBILE ASSN. (1902), AAA Building, 1712 G St., N.W., Washington 6, D. C., R. E. Singer, Exec. V. P.

AMERICAN GAS ASSN., 420 Lexington Ave., New York 17, N. Y., J. Stanford Setchell, Sec., Operating Section.

AMERICAN PETROLEUM INSTITUTE (1919), 50 West 50th St., New York 20, N. Y., Frank M. Porter, President; James E. Moss, Dir. Div. of Transportation, 1625 K St., N.W., Washington 6, D. C.

AMERICAN ROAD BUILDERS' ASSN. (1902), World Center Bldg., Washington 6, D. C., Maj. Gen. Louis W. Prentiss, Exec. V. P. and Sec.

AMERICAN SOCIETY OF BODY ENGINEERS, Inc. (1945), 100 Farnsworth Ave., Detroit 2, Mich., Leonard Buccellato, Sec.

AMERICAN SOCIETY OF REFRIGERATING ENGINEERS (1904), 234 Fifth Ave., New York 1, N. Y., R. C. Cross, Exec. Sec.

AMERICAN TAXICAB ASSN. (1942), 4415 N. California Ave., Chicago 25, Ill., M. H. Smith, Exec. Sec.

AMERICAN TRANSIT ASSN. (1882), 292 Madison Ave., New York 17, N. Y.

STAFF EXECUTIVES:

Executive V. P.—George W. Anderson.
Gen'l. Sec.—Arthur W. Baker.
Administrative Asst.—Van Court Lucas.
Asst. to Exec. V. P. & Gen. Sec.—Kenneth L. McKee.
Dept. of Personnel & Accident Prevention —(Appointment pending).
Dept. of Research—Walter S. Rainville, Jr., Dir.
Public Information—William U. Taylor, Dir.
News Editor, Passenger Transport—Robert G. Skinner.
Statistical Dept.—E. B. McCaul, Dir.
Librarian—Miss Julia Kelly.

AMERICAN TRUCKING ASSNS., INC. (1938), 1424 Sixteenth St., N.W., Washington 6, D. C.

STAFF EXECUTIVES:

Managing Director—John V. Lawrence.
General Manager—Ray G. Atherton.
Dir. Public Relations & Asst. to Pres.—Walter W. Belcon.
Asst. Gen. Mgr. & Dir. Interstate Cooper'n.—W. A. Bresnahan.
Asst. to Gen. Mgr.—H. Scott Ryerly.
General Counsel—Col. James P. Pinkney.
Comptroller—George H. Minnick.
Dir. Dept. of Research—E. V. Kiley.
Dir. Traffic Dept.—Frederick G. Freund.
Dir. Dept. of Safety—G. D. Sonthelmer.

Dir. Dept. of Industrial Relations—Benjamin R. Miller.
Dir. Law Dept.—Peter T. Beardsley.
Dir. Field Service Dept.—E. D. Hicks, Jr.
Editor, Transport Topics—Morris H. Glaser.

ATA SECTIONS:

Automotive Engineering Section—Lewis C. Kibbee, Chief.
Highway Engineering Section—H. A. (Mike) Flanskin, Chief.
Radio and Communications Section—Robert L. Abel, Chief.
Freight Claim Section—John M. Miller, Sec.
Special Services Section—E. M. Welliver, Chief.
Government Traffic Section—W. J. McCloskey, Chief.

ATA CONFERENCES:

Regular Route Common Carrier—Robert J. McBride, Exec. Dir.
Common Carriers—Irregular Route—Thomas F. Robertson, Man. Dir.
Local Cartage National Conference—Frank H. Floyd, Gen'l. Mgr.
Movers Conference of America—James F. Rowan, Gen'l. Mgr.
National Tank Truck Carriers, Inc.—C. Austin Sutherland, Managing Director.
Contract Carriers Conference—Mrs. V. H. Kennedy, Exec. Sec.
Automobile Transporters Conference—W. A. Bresnahan, Acting Sec.
Film Carriers Conference—E. D. Hicks, Jr., Acting Sec.
Oilfield Haulers Conference—James R. Boyd, Sec. (Austin, Texas).
Private Carriers Conference—Vincent L. O'Donnell, Exec. Sec.
Munitions Carriers Conference—William J. Burns, Man. Dir.
(See also listings under State Truck Associations)

ASSOCIATED GENERAL CONTRACTORS OF AMERICA, Munsey Bldg., Washington 4, D. C.

STAFF EXECUTIVES:

James D. Marshall, Exec. Dir.
H. E. Foreman, Managing Dir.
Archie N. Carter, Mgr., Highway Div.

AUTOMOBILE MANUFACTURERS ASSN. (1918), 320 New Center Bldg., Detroit 2, Mich.

STAFF EXECUTIVES:

Managing Dir.—Wm. J. Cronin.
Motor Truck Div., Motor Coach Div., and Field Services Dept.—Karl M. Richards, Mgr.
Motor Truck Technical Sub-committee—John J. Cummings, Sec.
Public Relations Dept.—Harry A. Williams, Dir.
Statistical Dept.—O. P. Pearson, Mgr.
Patent Dept.—Wm. L. Seherer, Mgr.
Traffic Dept.—Carman E. Brown, Mgr.
Engineering & Technical Dept.—Wm. F. Sherman, Mgr.
Washington Office—890 Transportation

Bldg., Harlan V. Hadley, Mgr.; John H. King, Motor Truck Div. Rep.
New York Office—866 Madison Ave., Alfred Reeves, Advisory V. P.

AUTOMOBILE SAFETY BELT INSTITUTE, 111 W. Washington St., Chicago 2, Ill., R. L. Ekstrand, Exec. Sec.

AUTOMOTIVE ELECTRIC ASSN., 16223 Meyers, Detroit 35, Mich., J. H. Reed, Exec. Sec.

AUTOMOTIVE ENGINE REBUILDERS ASSN., 419 N. Capitol Ave., Indianapolis 4, Ind., R. G. Patterson, Exec. V. P.

AUTOMOTIVE SAFETY FOUNDATION (1937), 200 Ring Bldg., 1900 18th St., N.W., Washington 6, D. C., J. O. Mattson, Pres.; Pyke Johnson, Consultant.

CAR AND TRUCK RENTING AND LEASING ASSN., 209 S. LaSalle St., Chicago 4, Ill., Howard R. Smith, Exec. Sec.

HIGHWAY RESEARCH BOARD OF NATIONAL RESEARCH COUNCIL (1929), 2161 Constitution Ave., Washington 25, D. C.; Fred Burggraf, Dir.

INDEPENDENT ADVISORY COMMITTEE TO THE TRUCKING INDUSTRY, INC., 1000 Vermont Ave., N.W., Washington 5, D. C., Att.: Arthur D. Gordon.

NATIONAL ASSN. OF MOTOR BUS OPERATORS (1926), 839 17th St., N.W., Washington 6, D. C.

STAFF EXECUTIVES:

Arthur M. Hill, Pres.
Secretary-Manager—A. W. Koehler.
Asst. to Sec.-Mgr.—W. R. Longenecker.
General Counsel—Guy Farmer.
Dir. of Div. of Research & Statistics—Harold R. Hoses.

NATIONAL ASSN. OF TAXICAB OWNERS, (1918), 803 Leader Bldg., Cleveland 14, Ohio, H. I. Gwilym, Sec.

NATIONAL AUTOMOBILE DEALERS ASSN. (1917), 2000 K St., N.W., Washington 6, D. C., Dr. Rowland F. Kirks, Leg. Counsel.

NATIONAL AUTOMOBILE TRANSPORTERS ASSN. (1944), 1043 National Bank Bldg., Detroit 26, Mich., Ella Harding, Office Mgr.

NATIONAL BUS TRAFFIC ASSN., INC. (1933), 506 S. Wabash Ave., Chicago 5, Ill.

F. J. Campbell, Chairman.

North Central Division—509 6th Ave. N., Minneapolis 5, Minn., W. A. Allen, Chairman.

South Central Division—315 Continental Ave., Dallas, Texas, L. G. Simon, Chairman.

Western Division—Pine and Battery Sta., San Francisco, Cal., Glen G. Magnuson, Chairman.

national associations sae local sections

CCJ'S ASSOCIATION DIRECTORY

NATIONAL ASSOCIATIONS—continued

NATIONAL HIGHWAY USERS CONFERENCE, INC. (1932), National Press Bldg., Washington 4, D. C.

STAFF EXECUTIVES:

Director—Arthur C. Butler.
Asst. Director—P. D. McLean.
Research Counsel—Yule Fisher.
Engineering Counsel—Roy E. Jorgensen.
State Services Dept.—Russell E. MacCleery, Mgr.; Harold Gray, Field Mgr.
Mfr. Legislative Reporting Dept.—Myles English.
Mgr. Public Info. Dept.—John E. Moore.
Safety Coordinator—William J. Simon.
Special Services Dept.—G. Tinsley Garnett, Mgr.

REGIONAL REPRESENTATIVES:

(Note: For exact locations, address through National headquarters in Washington.)
James E. Basham, Kansas City, Mo. (Arkansas, Kansas, Missouri & Oklahoma).

John E. Boyd, Jr., Salt Lake City, Utah (Colorado, Nevada, Utah & Wyoming).
G. H. Buenger, Austin, Texas (Arizona, New Mexico & Texas).

R. W. Callan, Seattle, Washington (Idaho, Montana, Oregon & Washington).

J. Olan Cooper, Auburn, Alabama (Alabama, Florida & Georgia).

Cecil Fausch, Chicago, Illinois (Iowa, Minnesota, Nebraska, North Dakota & South Dakota).

Dafydd Hawkins, Nashville, Tennessee (Kentucky, Louisiana, Mississippi & Tennessee).

David L. Kelly, Chapel Hill, North Carolina (North Carolina, South Carolina, Virginia & West Virginia).

Michael LePere, Chicago, Ill. (Supervision of Mid-western States).

David F. McQuaid, Nashua, New Hampshire (Supervision & field work in New York & New England states).

Edmund C. Pusy, Mt. Airy, Maryland (Delaware, Maryland, New Jersey, Pennsylvania & West Virginia).

Herbert B. Simpson, San Francisco, California (California and supervision 11 western states).

George A. White, Arlington, Va. (Delaware, Maryland, New Jersey & Pennsylvania).

(See also Listing under State Highway Users Conferences, Page 88.)

NATIONAL SAFETY COUNCIL (1913), 425 N. Michigan Ave., Chicago 11, Ill.

STAFF EXECUTIVES:

Ned H. Dearborn, President.
G. C. Stewart, Gen. Mgr.
Paul H. Coburn, Dir. Motor Transportation Div.

NATIONAL TRUCK LEASING SYSTEM (1945), 23 E. Jackson Blvd., Chicago 4, Ill., Miss Martha Dunlap, Sec.-Mgr.

PRIVATE TRUCK COUNCIL OF AMERICA, INC. (1939) (Formerly National Council of Private Motor Truck Owners, Inc.), Sheraton Bldg., Washington 5, D. C., James D. Mann, Man. Dir.

RUBBER MANUFACTURERS ASSN., INC. (1909), 444 Madison Ave., New York 22, N. Y., Ross R. Ormsby, Pres.

SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (1905), 485 Lexington Ave., N. Y.

STAFF EXECUTIVES:

Sec. & Gen. Mgr.—John A. C. Warner.
Meetings Div.—T. A. Russell, Mgr.
Technical Committee Div.—Joseph Gilbert, Mgr.

Membership & Sections Div.—Hollister Moore, Mgr.
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Editor SAE Journal—Norman G. Shidle.
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TIRE AND RIM ASSN., INC. (1903), 2001 First National Tower, Akron 8, Ohio., C. G. Hoover, Exec. V. P.

TRANSPORTATION ASSN. OF AMERICA (1935), 6 N. Michigan Ave., Chicago 2, Ill., Edith C. Krogh, Sec.-Treas.

TRUCK BODY AND EQUIPMENT ASSN., INC. (1948), 401-402 Washington Bd. of Trade Bldg., 1616 K St., N.W., Washington 6, D. C., Arthur H. Nuesse, Exec. Mgr.

TRUCK-TRAILER MANUFACTURERS ASSN., INC. (1941), Room 710, Albee Bldg., 1426 G St. N.W., Washington 5, D. C., John B. Hulse, Mgr.-Dir.

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WILLIAMSPORT: Harry J. Lavo, 675 Percy Street, South Williamsport, Pennsylvania.

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- ARKANSAS BUS & TRUCK ASSN., INC.** (1942), 914 Wallace Building, Little Rock, Ark., Marion G. Ward, Mgr. (Also buses.)
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- TRUCK OWNERS ASSN. OF CALIFORNIA, INC.** (1934), 417 Market Street, Rm. 218, San Francisco, Larry Fites, Mgr.-Dir.
- *AUTOMOTIVE COUNCIL**, Box 2272, Terminal Annex, Los Angeles 54, Cal., W. K. Stevenson.
- CALIFORNIA TRUCKING ASSNS. INC.** (1955), 3301 S. Grand Ave., Los Angeles 7, Cal., Wade Sherrard, Man. Dir.
- COLORADO MOTOR CARRIERS ASSN.** (1939), 4060 Elati St., Denver, Col., Ben Bezoff, Man. Dir.
- MOTOR TRANSPORT ASSN. OF CONNECTICUT, INC.** (1930), 410 Asylum Street, Hartford 3, Conn., John F. Maers, Exec. Vice-Pres.
- DELAWARE MOTOR TRUCK ASSN.** (1939), P. O. Box 161, Dover, Del., Fred J. Sievers, Jr., Mgr.
- DISTRICT OF COLUMBIA TRUCKING ASSN., INC.** (1934), 1424 16th St., N.W., Washington 6, D. C., John R. Scott, Exec. Secy.
- FLORIDA TRUCKING ASSN., INC.** (1934), 704 Gilmore St., Jacksonville, Fla., C. A. Gertner, Gen. Mgr.
- GEORGIA MOTOR TRUCKING ASSN., INC.** (1934), 328 Ponce De Leon Ave., N.E., Atlanta, Ga., E. S. Burke, Jr., Exec. V. P.
- IDAH0 MOTOR TRANSPORT ASSN.** (1939), 203 Eastman Bldg., Boise, Idaho, Kenneth Hartzler, Mgr. Dir.
- CENTRAL MOTOR FREIGHT ASSN.** (1930), 316 East Ohio St., Chicago, Ill., William Noorlag, Gen. Mgr.
- ILLINOIS MOTOR TRUCK OPERATORS ASSN., INC.** (1924), 30 N. LaSalle St., Chicago, Walter E. McCarren, Exec. Dir.
- INDIANA MOTOR TRUCK ASSN., INC.** (1932), 2905 N. Meridian St., Indianapolis, Ind., James Nicholas, Exec. Secy.
- *PRIVATE TRUCK OWNERS OF INDIANA, INC.** 1127 Central Ave., Indianapolis 2, Ind., C. W. Abraham, Sec.
- IOWA MOTOR TRUCK ASSN., INC.** (1943), 604 Capitol City Bank Bldg., Des Moines, Iowa, LeRoy Crowley, Secy.-Mgr.
- KANSAS MOTOR CARRIERS ASSN., INC.** (1936), 2900 S. Topeka Blvd., Topeka, Kans., J. R. Halladay.
- KENTUCKY MOTOR TRANSPORT ASSN.** (1924), 601-01 Republic Bldg., Louisville 2, Ky., Lew Ullrich, Managing Director.
- LOUISIANA MOTOR TRANSPORT ASSN., INC.** (1939), 1216 Main St., P. O. Box 1326, Baton Rouge, La., James P. Babington, Exec. Dir.
- MAINE TRUCK OWNERS ASSN.** (1946), Rm. 313, 415 Congress St., Portland, Me., William P. Shapleigh, Exec. Secy.
- MARYLAND MOTOR TRUCK ASSN., INC.** (1935), 2928 Washington Blvd., Baltimore, Md., Thomas E. Wideman, Gen. Mgr.
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- MICHIGAN TRUCKING ASSN.** (1934), 376 Fort Shelby Hotel, Detroit 26, Mich., William W. Johnston, Man. Dir.
- MINNESOTA MOTOR TRANSPORT ASSN.** (1932), 2453 University Ave., St. Paul, Minn., Oscar Z. Remsburg, Exec. V. P.
- MISSISSIPPI TRANSPORT ASSN., INC.** (1943), 504 Deposit Guaranty Bank Bldg., Jackson 104, Miss., C. R. Bradley, Mgr.
- MISSOURI BUS & TRUCK ASSN.** (1937), 628 Jefferson St., Jefferson City, Mo., U. G. Lewellen, Secy.
- MONTANA MOTOR TRANSPORT ASSN.** (1938), Box 1244, Billings, Mont., Leonard W. Eckel, Secy. Mgr.
- NEBRASKA MOTOR CARRIERS ASSN., INC.** (1924), Suite A, 500 S. 13th St., Lincoln, Neb., Paul Halpine, Secy.
- NEVADA MOTOR TRANSPORT ASSN.** (1939), 1093 S. Virginia St., P. O. Box 2168, Reno, Nev., Robert Guinn, Secy.-Mgr.
- NEW HAMPSHIRE TRUCK OWNERS ASSN., INC.** (1936), 275 Hanover St., Manchester, N. H., A. J. Stahy, Secy. Mgr.
- NEW JERSEY MOTOR TRUCK ASSN.** (1915), 10 Hill St., Newark 2, N. J., D. J. Crecca, Exec. Dir.
- NEW MEXICO MOTOR CARRIERS ASSN.** (1938), P. O. Box, 541, Albuquerque, N. M., Leslie R. Thomas, Man. Dir.
- EMPIRE STATE HIGHWAY TRANSPORTATION ASSN., INC.** 44 E. 23rd St., New York, N. Y., Joseph Adelstein, Mgr.-Dir.
- NORTH CAROLINA MOTOR CARRIERS ASSN.** (1929), 219 W. Martin St., Raleigh, N. C., J. T. Outlaw, Exec. V. P.
- NORTH DAKOTA MOTOR CARRIERS ASSN., INC.** (1935), 110 Third St., Bismarck, N. D., Allan M. Shirley, Secy. Mgr.
- OHIO TRUCKING ASSN., INC.** (1918), Hotel Dresher-Hilton, Columbus, Ohio, Ellis S. Feriman, Man. Dir.
- ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC.** (1932), P. O. Box 983, Suite 2315, Biltmore Hotel, Oklahoma City, Okla., Flaher Muldrow, Exec. V. P.
- OREGON TRUCKING ASSOCIATION** (1939), 1401 N.W. 19th St., Portland, Ore., George H. Flagg, Mgr.
- PENNSYLVANIA MOTOR TRUCK ASSN.** (1928), 7th Floor, Telegraph Bldg., Harrisburg, Pa., Edward Gogolin, Gen. Mgr.
- RHODE ISLAND TRUCK OWNERS ASSN.** (1931), 49 Weybosset St., Providence 3, R. I., Mrs. L. M. Daly, Secy.
- MOTOR TRANSPORTATION ASSN. OF SOUTH CAROLINA, INC.** (1933), 2425 Devine St., Columbia, S. C., William B. Love, Jr., Gen. Mgr.
- ASSOCIATED MOTOR CARRIERS, INC., OF SOUTH DAKOTA** (1937), P. O. Box 496, Sioux Falls, S. D., E. R. Nelson, Gen. Mgr.
- TENNESSEE MOTOR TRANSPORT ASSN., INC.** (1934), Hermitage Hotel Office Bldg., Nashville 3, R. Stanley Owens, Mgr.
- *PRIVATE TRUCK OWNERS ASSN. OF TEXAS, INC.**, Box 1081, Littlefield Bldg., Austin, Tex., Carl C. Hardin, Exec. Sec.
- TEXAS MOTOR TRANSPORTATION ASSN., INC.** (1932), 101½ E. 10th St., P. O. Box 92, Austin 1, Tex., James E. Taylor, Exec. Dir. (Also buses.)
- UTAH MOTOR TRANSPORT ASSN., INC.** (1932), 208 W. 8th St., E., Box 686, Salt Lake City 4, Utah, L. Darrel Welling, Mgr.
- VERMONT TRUCK & BUS ASSOCIATION, INC.** (1934), c/o Marcell's Motor Express, Box 467, Burlington, Vt., Philip H. Marcell, Pres.
- VIRGINIA HIGHWAY USERS ASSN., INC.** (1931), Box 1397, Jefferson Hotel, Richmond 11, Va., E. H. Williams, Jr., Exec. V. P.
- WASHINGTON MOTOR TRANSPORT ASSN., INC.** (1923), 4101 4th Ave. S., Seattle, Wash., William E. Hicks, Mgr. Dir.
- WEST VIRGINIA MOTOR TRUCK ASSN., INC.** (1936), 303 Duffy St., Box 5217, Charleston, W. Va., Emmett J. Bush, Mgr. Dir.
- WISCONSIN MOTOR CARRIERS ASSN.** (1931), One W. Main St., Madison, Wis., John P. Varda, Gen. Mgr.
- WYOMING TRUCKING ASSN.** (1940), 628 West Yellowstone, Casper, Wyo., Walter Kingham, Man. Dir.

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- SOCIETY OF FLEET SUPERVISORS OF GREATER MIAMI**, P. O. Box 267, Riverside Station, Miami 10, Fla., R. K. Dawson, Jr., Sec.
- FLEET SUPERVISORS ASSN.** (1951), 1093 Gun Club Dr. N.W., Atlanta, Ga., C. E. Sneed, Pres.
- MIDWEST FLEET SAFETY SUPERVISORS ASSN.**, 2215 N.E. Kennedy St., Minneapolis 13, Minn., V. G. Hendries, Sec. Treas.
- GREATER KANSAS CITY FLEET MAINTENANCE ASSN.**, P. O. Box 1121, Kansas City, Mo., J. B. Anderson, Sec.
- MAINTENANCE COUNCIL, N. CAROLINA MOTOR CARRIERS ASSN.** (1953), 219 W. Martin St., Raleigh, N. C., J. W. Cole, Pres.
- SOCIETY OF FLEET SUPERVISORS, INC.** (New York) (1945), 88-49 69 Road, Forest Hills 75, N. Y., William J. Maher, Sec.
- MOTOR TRUCK MAINTENANCE CLUB OF NEW YORK** (1925), c/o Tidewater Oil Co., 17 Battery Place, New York, N. Y., W. A. Kerkum, Sec.-Treas.
- TRUCK AND BUS MAINTENANCE ASSN. OF BUFFALO** (1945), 762 Eggert Rd., Buffalo, N. Y., Martin H. Doebert, Sec.
- OKLAHOMA CITY FLEET SUPERVISORS ROUNDTABLE**, 319 Hales Bldg., Oklahoma City, Okla., John McCarty, Chmn.
- FLEET MAINTENANCE ASSN. OF PHILADELPHIA** (1948), 1831 Nappie Ave., Philadelphia 11, Pa., John R. Schaeffer, Sec.
- FLEET MAINTENANCE COUNCIL INC. OF AKRON**, 200 Carroll St., Akron, Clyde Lang, Sec.

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*ARKANSAS BUS AND TRUCK ASSN. (See State Motor Truck Assns.)

*CALIFORNIA BUS ASSN. (1955), 1322 Webster St., Oakland, Cal., J. R. Worthington, Sec.-Mgr.

CONNECTICUT MOTOR STAGE ASSN., INC. (1922), 66 Linden St., Waterbury, Conn., Frank T. Healey, Jr., Sec.

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*NEW ENGLAND BUS ASSN., 291 Washington St., Geneva, N. Y., Leon A. Penoyer, Exec. Sec.

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*INTERCITY BUS ASSN. OF NEW YORK STATE, INC. (1938), 1522 National Savings Bank Bldg., Albany 7, N. Y., Mildred K. Straub, Exec. Sec.

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*OHIO MOTOR BUS ASSN. (1923), 209 S. 2nd St., Columbus 15, Ohio, R. J. Lewis, Sec.-Treas.

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WISCONSIN: F. M. Elliott, Exec. Secy., Wisc. Petroleum Industries Committee, 122 W. Washington Ave., Room 415, Madison.

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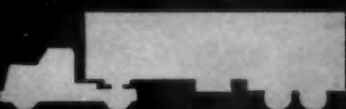
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GMC Describes '57 Models

Continued from Page 60

Nos. 150, 150-8 and PM 150 feature 1310 series joints replacing the 1260 series; and Model Nos. 350, 350-8, F350 and F350-8 feature 1410 series joints replacing the 1350 series.

Model Nos. 100 and 150 have new type rear shock absorber mounting for better road shock control and increased bracket life. The shock absorber shank is connected by means of a pin floating in a rubber bushed bracket.

Model No. 150 has parking brakes utilizing the rear axle brake shoes instead of band-type through use of Spicer No. 60 rear axle. This permits use of Warn hubs on all 4-wheel drive vehicles and standardizes brake shoes on all light-duty models.

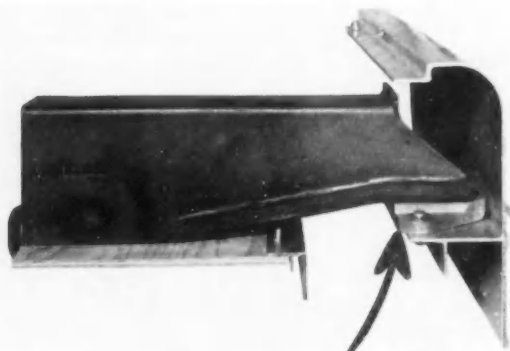
Power take-off gear box is offered as an option in Model No. 300, permitting the use of this vehicle with the Hydra-Matic transmission in operations with equipment such as dump, hydraulic tailgate, pump, etc. Also new options are available for providing, as factory installed equipment, tractor brake protective devices to meet ICC regulations. Models in 370 series are available with both cast and disc-type wheels.

GCW ratings is increased to 32,000 lb in Model Nos. 350 and 370 due to improved axles and greater power.

Transmissions

All Model Nos. 350 through 370 are available with two types of larger New Process 5-speed transmissions—(1) a short-fourth direct, Model No. 540GD11, and (2) a close-geared direct, Model No. 540GR11. Model No. 540GD11 gives short fourth gear to obtain maximum performance in tractor operations. It is offered (1) with standard single-speed axles in all

Plastic Goes Between



Trailmobile, Inc., Cincinnati, Ohio, aims to do away with reefer "hot spots" by using a plastic meat rail insulator to eliminate metal-to-metal heat conduction between meat rail and outside of trailer.

350-370 models, (2) with GMC T150 2-speed axles in Model Nos. 350, F350, 370, F370, (3) with the Timken F341 axle in Model Nos. 350-8 and F350-8, (4) with new Timken G341 2-speed axles in 370-8 and F370-8. Its gear ratios are: 1st, 6.05; 2nd, 3.31; 3rd, 1.84; 4th, 1.17; 5th, 1.00; and reverse, 6.42.

New 3-speed synchromesh transmission, SM320, is used in Model Nos. 100-8 and 150-8 to provide greater torque capacity. Gear ratios are: 1st, 2.49; 2nd, 1.59; and 3rd, 1.0. An optional 5-speed transmission is available in Model Nos. 350-370.

Axles

Spicer No. 45 rear axle with 3.07 ratio becomes standard. Rated at 3300-lb capacity, this axle was used in Model Nos. 100 and 100-8 this year. A 3.92 ratio is still available as an option in the Spicer No. 45 axle for off-road and hilly operations requiring greater gear reductions. The 3.92 ratio is standard with front-wheel drive option.

Spicer No. 60 rear axle with 4.56 standard ratio is used in Model Nos. 150, 150-8 and PM 150. GMC T150 2-speed axle is optional for Model Nos. 350 and F350. The T150 continues to be offered as option in 370 6-cyl models.

Due to greatly increased torque and horsepower in V-8 engine Model Nos. 350 and 370, stronger and high torque capacity 2-speed axles are used. Model Nos. 350-8 and F350-8 are available with the 14,000-lb Timken F341 2-speed in either 5.92-8.1 or 6.48-8.86 ratios, and Model Nos. 370-8, F370-8 and S370-8 are available with the 16,000-lb Timken G341 2-speed 6.61-9.09 ratio.

Standard axle in all 350 models becomes the 15,000-lb H150 single-speed. It is an option in the S300 schoolbus chassis. The Timken B100 axle rates at 7200 lb is used as the rear axle in Model No. 250-8.

All GMC models in 1957 will use negative ground electrical system.

END

Please Resume Reading Page 62

Truck Overhead



Overhead is not an expense at this new Oklahoma City, Okla., plant of Continental Baking Co. Roof was designed heavy enough to act as floor for possible future production space, has been concreted for present use as fleet parking.

KOLD-HOLD[®] truck refrigeration

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helps you analyze
your truck refrigeration
needs!



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Let Kold-Hold planning help you ward off the unexpected strains that are an ever-present danger in considering only present needs. Planning for the future can pay off handsomely in value received for your budget dollars.

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compounds to connectors.

CCJ'S PRODUCT DIRECTORY

COMPOUNDS, Tire—continued

Even-Air Corp., Caldwell, N. J.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Goodrich Co., B. F. Industrial Prods. Div., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
Kex Products, 7259 Lansdowne Ave., St. Louis 19, Mo.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 3, N. Y.
Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.
Pera Products, Inc., 801 N. 2nd St., Corvallis, Ore.
United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Woodlawn Ave., 77th to 78th St., Chicago, Ill.

COMPOUNDS, Valve Grinding

Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Clover Mfg. Co., Norwalk, Conn.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Hollingshead Corp., R. M., 240 Cooper St., Camden, N. J.
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Purfex Mfg. Co., Box 118, Collegeville, Pa.
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

COMPOUNDS, Welding

Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio.
Ensign Products Co., 3528 E. 76th St., Cleveland 15, Ohio.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio. (To prevent bonding of spatter to parts.)
Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich. ("Flash-Ex." to prevent bonding of flash to dies; "Spatter-Ex." to prevent bonding of spatter to parts.)
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis. (To prevent bonding of spatter to parts.)

COMPOUNDS, Windshield Sealing

Behr-Manning, Div. Norton Co., Troy, N. Y.
Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio.
du Pont de Nemours & Co., E. I., Finishes Div. Specialties Sales, Wilmington 98, Del.
Krylon, Inc., Ford & Washington Sts., Norristown, Pa.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Radiator Specialty Co., 1400 W. Ind Blvd., Charlotte 1, N. C.
Vibradamp Corp., 4401 Page Ave. Rd., Jackson, Mich.

COMPRESSION GAGE, See Gages, Cylinder Compression

COMPRESSORS, Air

American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J.
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y.
Bell & Gossett Co., 8290 Austin Ave., Morton Grove, Ill.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill. (For operating spray equipment.)
Black Mfg. Co., 75 Okner Parkway, Livingston, N. J.
Brown Corp., W. R., 2701 N. Normandy Ave., Chicago 35, Ill.

Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Buell Mfg. Co., 919 W. 49th Place, Chicago 9, Ill.
Campbell-Hausfeld Co., 211 Railroad Ave., Harrison, Ohio.
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal.
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo.
Davey Compressor Co., 600 Franklin Ave., Kent, Ohio.
Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Emglo Products Div., M. Glosser & Sons, Inc., 80 Messenger St., Johnstown, Pa.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gardner-Denver Co., S. Front St., Quincy, Ill.
Gast Mfg. Corp., 2300 Highway M-139, Benton Harbor, Mich.
Gilbert & Barker Mfg. Co., West Springfield, Mass.
Grover Prods. Co., 1221 S. Hope St., Los Angeles 15, Calif. (Electric.)
H & H Products Mfg. Co., P. O. Box 2333 Terminal Annex, Los Angeles 54, Calif.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Philadelphia 36, Pa.
Le Roi Co., Milwaukee 1, Wis.
M. & E. Mfg. Co., 2571 Winthrop Ave., Indiananapolis 6, Ind.
Midland Steel Products Co., 2641 E. Milwaukee Ave., Detroit 11, Mich.
National Electric Tool & Equipment Co., 1807 W. Lake St., Chicago 12, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York, N. Y.
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich.
Quincy Compressor Co., 217 Maine St., Quincy, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Southwest Pump Co., First and Center Sts., Bonham, Tex.
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.
Thomas Industries, Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.
Tokheim Corp., 1602 Wabash Ave., Fort Wayne 1, Ind. (Portable.)
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Salisbury, Md.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, Inc., K. R., 215 Main St., Arcade, N. Y.

COMPRESSORS, Air, Power Take-off Type

Cooper-Bessemer Corp., Mount Vernon, Ohio.
Davey Compressor Co., 600 Franklin Ave., Kent, Ohio.
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill.
Schramm, Inc., West Chester, Pa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

CONDENSER TESTERS, See Instruments, Electrical Circuit Testing

CONDENSERS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.

D. & M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
Electric Auto-Lite Co., Toledo, Ohio.
F. & B. Mfg. Co., 4245 W. Chicago Ave., Chicago 51, Ill.
Good-Air electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Guaranteed Parts Co., Seneca Falls, N. Y.
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
New York Coil Co., 42 Second Ave., Phoenixville, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Sprague Electric Co., 344 Marshall St., North Adams, Mass.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

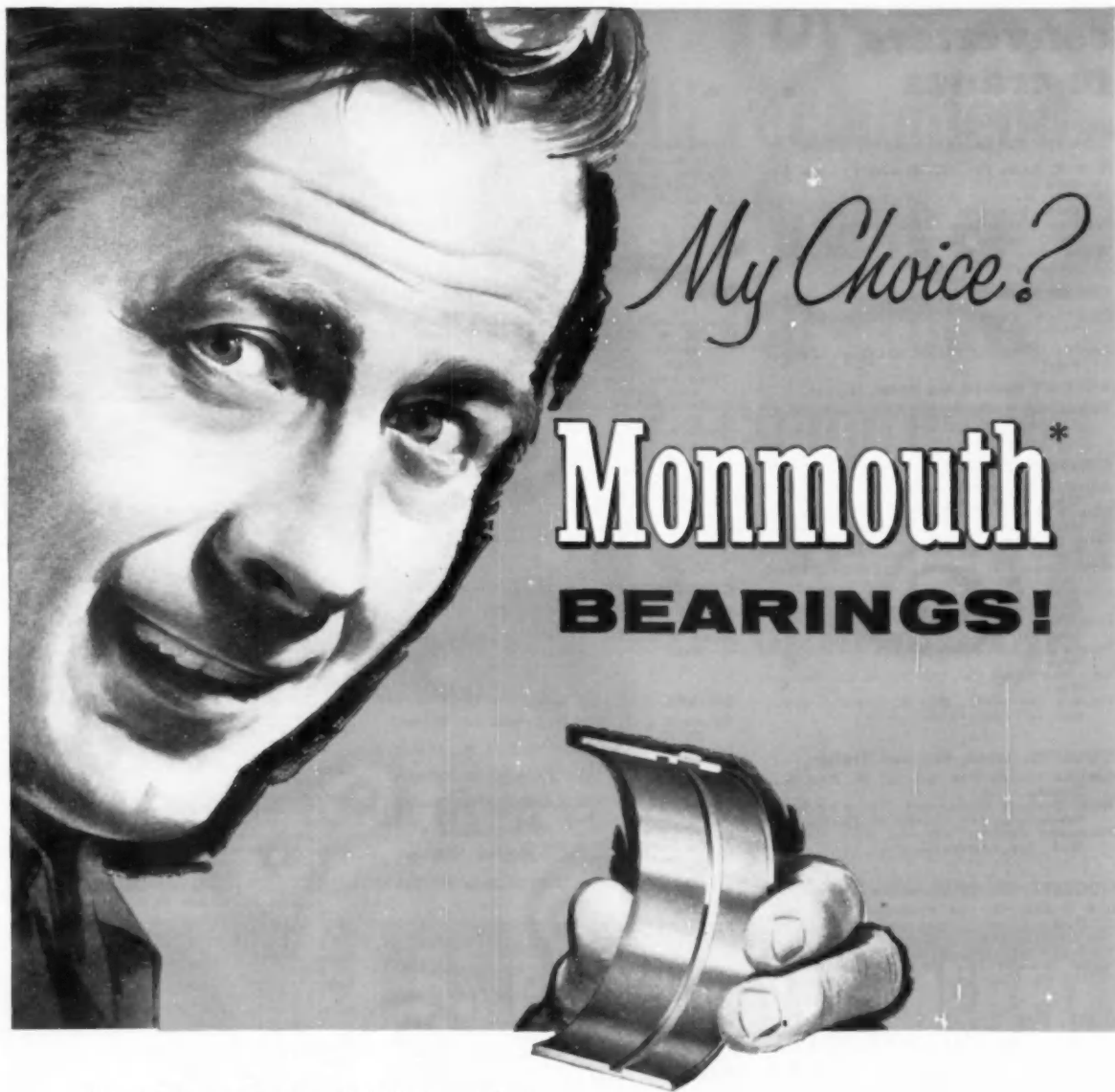
CONNECTING ROD BEARINGS, See Bearings

CONNECTING RODS

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloy.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Reconditioned. Reballbitted.)
Carns Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Continental Motors Corp., Muskegon 82, Mich.
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum.)
Niagara Motors Corps., Lampshire St., Dunkirk, N. Y.
Park Drop Forge Co., 777 E. 79th St., Cleveland 3, Ohio.
Parks Engineering, Inc., 347 E. Ward St., Milwaukee 7, Wis.
Pioneer Motor Bearing Co., Eddy St. & Van Ness Ave., San Francisco, Calif.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.

CONNECTORS, Electrical Circuit, Trailer

Autac, Inc., Box 1071, New Haven, Conn.
Berg Mfg. & Sales Co., 1712 E. Michigan, Chicago 16, Ill. (Also voltage converters.)
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. (Also voltage converters.)
Connecticut Telephone & Electric Corp., 85 Britannia St., Meriden, Conn.
Griffin Lamp Co., 401 S. 3rd St., Hamilton, Ohio.
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.



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S. & M. Lamp Co., 119 W. 36th Pl., Los Angeles 54, Calif.
Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. J.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. W., 11th & Cambria Sts., Philadelphia 33, Pa.

CONNECTORS, WIRE, See Terminals, Wire

CONTACT POINT ALIGNING TOOLS, See Tools, Ignition

CONTACT POINT FILES, See Files, Contact Point

CONTACT POINTS, See Points, Ignition

CONTROLS, ENGINE CUT OFF, See Switches, Ignition, Cut-Off

CONVERTERS, Torque

Allison Div., General Motors Corp., P. O. Box 894, Indianapolis 6, Ind.
Borg & Beck Div., Borg-Warner Corp., 6558 S. Menard Ave., Chicago 38, Ill.
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio
"Spicer Brown-Lipe."
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13, Mich.
Long Mfg. Div. of Borg-Warner Corp., 12501 Duquindre St., Detroit 12, Mich.
Terado Co., 1068 Raymond Ave., St. Paul 14, Minn.
Twin Disc Clutch Co., 1328 Racine St., Racine, Wis.
Western Gear Corp., 2600 E. Imperial Highway, Lynwood, Calif.

COOLERS, Truck, Bus and Trailer

Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Metal Products Engineering, Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.
Thermador Electrical Mfg. Co., 519 S. District Blvd., Los Angeles 22, Calif.

COOLERS, Oil Temperature

G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
Kewanee-Ross Corp., Buffalo, N. Y.
Yates-American Machine Co., Reloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

CORD, Tire

American Enka Company, 206 Madison Ave., New York 16, N. Y.
du Pont de Nemours & Co., E. I., Textile Fibers Dept., Wilmington 98, Del.

CORROSION PREVENTIVES, See Rust Preventives

COUPLERS, Trailer

(See also "Connectors, Electrical")
Acme Mfg. Co., 1406 Agnes St., Kansas City 27, Mo.
Atwood Vacuum Co., 1400 Eddy Ave., Rockford, Ill.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Berluti Mfg. Co., 1023 Wheeler St., Saginaw, Mich. (Utility.)
Buller Mfg. Co., Hillsboro, Kan.
Campbell Co., H. D., 402 Dewey Ave., Rochelle, Ill.
Colson Corp., Elyria, Ohio.
Dutton-Lainson Co., Mfg. Div., Hastings, Neb.
Eberhard Mfg. Co., Div. of Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio. (Utility.)
Elkhart Welding & Boiler Works, Inc., 2132 S. Main St., Elkhart, Ind.
Foreman Mfg. Co., 5353 S. State St., Chicago 9, Ill.
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Ideal Mfg. Co., 1107 S. 7th St., Askaloosa, Iowa.

Independent Iron Works, Inc., 8th & Pine Sts., Oakland 20, Calif.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. (Aligner.)
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo.
McKay Co., 1006 Liberty Ave., Pittsburgh 22, Pa. (Emergency chain.)
Marvel Industries, Inc., Sturgis, Mich.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Premier Mfg. Co., 4434 S.E. 25th Ave., Portland 2, Ore.
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Cabin, sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Slimp Axle Products, Highway 99 West (Box 449), Colton, Calif.
Valley Tow-Rite Industries, 1231 S. Sacramento St., Lodi, Calif.
Weber trailer & Mfg. Co., 8400 E. Slawson Ave., Rivera, Calif. (Mailing address, P. O. Box 2473, Los Angeles 34, Calif.)
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.
Wood-Williams-Capp Mfg. Co., 3239 W. Michigan Ave., Ypsilanti, Mich.

COUPLINGS, See Tube Fittings

COVERINGS, Floor, Bus or Truck

Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Linoleum.)
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Synthetic rubber.)

COVERS, Radiator Grille

Belmor Mfg. Co., 3326 W. Cermak Rd., Chicago 23, Ill.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich.
Henry Mfg. Co., 1310 Marquette St., Minneapolis, Minn.
Hinson Mfr. Co., Westfield Ave. & Menges St., Waterloo, Iowa.
Parker Products, Inc., 1415 Washington Ave., S., Minneapolis 4, Minn.
Protection Products Co., 2637 W. Polk St., Chicago 12, Ill.
Temme & Co., W. H., 1027 Madison St., Oak Park, Ill.

COVERS, Truck

Ameratron, Inc., Div. of Textron-America, 1407 Broadway, New York, N. Y.
Acme Backing Corp., Canal & Ludlow Sts., Stamford, Conn.
Clifton Mfg. Co., 323 Pleasant St., Waco, Texas.
Du Pont Co., 2494 Nemours Bldg., Wilmington 98, Del.
Haartz-Mason, Inc., 270 Pleasant St., Watertown, Mass.
Hoosier Tarpaulin & Canvas Goods Co., Inc., P. O. Box 574, Indianapolis 6, Ind.
Mt. Vernon-Woodberry Mills, Inc., Mercantile Trust Bldg., N. Y., N. Y.
Pittsburgh Steel Products Co., Grant Bldg., Pittsburgh 30, Pa. ("Speedrack" for handling tarpaulins.)
Reeves Bros., Inc., Vulcan Rubber Products Div., 1071 Sixth Ave., New York, N. Y.
Turk Corp., C. K., 1122 Mishawaka Ave., South Bend 15, Ind. "Caravan Top." (For pickup trucks.)
Turner Equipment Co., 432 St. Aubin St., Detroit 7, Mich.
Webb Mfg. Co., Fourth & Cambria Sts., Philadelphia 33, Pa.

CRANES, Crawler and Truck Mounted

American Hoist & Derrick Co., St. Paul 1, Minn. (Crane blocks.)
Automatic Transportation Co., Div., Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.
Browning Crane & Shovel Co., 16226 Waterloo Rd., N. E., Cleveland 10, Ohio.
Harben, Inc., Box 5997, Dallas, Tex.
Hughes-Keenan Corp., Delaware, Ohio.
Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.; 1880 N. Adams St., Peoria 1, Ill.; 1080 Meyers St., Danville, Ill.
Link-Belt Speeder Corp., 1201 Sixth St., S. W., Cedar Rapids, Iowa.
Memo, 1007 N.W. 36th St., Okla. City 3, Okla.
Schield Bantam Co., Waverly, Iowa.

Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.
Star Machine & Tool Co., 20 16th St., S.E., Minneapolis 14, Minn.

CRANES, Monorail

American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.
Detroit Hoist & Machine Co., 8350 Morrow St., Detroit 11, Mich.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis.
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
Industrial Crane & Hoist, Ingersoll Products Div., Borg-Warner Corp., 1536 S. Paulina St., Chicago 8, Ill.
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.
Michigan Crane & Conveyor Co., 115 N. McKinstry St., Detroit, Mich.
Northern Engineering Wks., 2615 Atwater St., Detroit 7, Mich.

CRANES, Portable, Hand Operated

(See also Hoists, Chain)

Baker Mfg. Co., 154 W. Water St., Kankakee, Ill.
Bradley Machine Co., 70 Monhagen Ave., Middletown, N. Y.
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.
Chisholm-Moore Hoist Div. Columbus McKinnon Chain Corp., Fremont Ave., Tonawanda, N. Y.
Evans Reamer & Machine Co., New Lexington, Ohio.
Houdaille Industries, Inc., Manzel Div., 315 Babcock St., Buffalo 10, N. Y.
Industrial Crane & Hoist, Ingersoll Products Div., Borg-Warner Corp., 1536 S. Paulina St., Chicago 8, Ill.
Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Hydraulic.)
Lewis-Shepard Products, Inc., 125 Walnut St., Waretown 72, Mass.
Manley Div. American Chain & Cable Co., 1100 E. Princess St., York, Pa.
Manning, Maxwell & Moore, Inc., Shaw-Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Manzel Div. Houdaille-Hershey Corp., 315 Babcock St., Buffalo 10, N. Y. (Hydraulic.)
Ohio Hoist & Mfr. Co., 13111 Shaker Sq., Cleveland 20, Ohio.
Round & Son, David, Box 883, Cleveland 22, Ohio.
Ruger Equipment, Inc., 615 W. 4th St., Uhrichville, Ohio.
Sagen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Star Machine & Tool Co., 201 Sixth St., S.E., Minneapolis 14, Minn.
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 5, Minn.

CRANES, Service Truck

Cam Tool Co., 1038 Larkin St., San Francisco, Calif.
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio. (Fifth wheel mount.)
Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.
Gar Wood Industries, Inc., Wayne, Mich.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
Hubbard Mfg. Co., Farmland, Ind.
Manley Mfg. Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
Rockford Crescent Mfg. Co., 420 Buckbee St., Rockford, Ill.
Ruger Equipment, Inc., 615 W. 4th St., Uhrichville, Ohio. (Hydraulic.)
Sagen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.
Stimmler Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 5, Minn.
Watson Co., H. S., 1316 67th St., Emeryville, Calif.
Weld-Built Body Co., 5903 Preston Court, Brooklyn 34, N. Y.

CRANKSHAFT, GRINDERS, See Grinders, Crankshaft

THERE ARE 12 MAJOR AMERICAN
TRUCK MANUFACTURERS:



**All recommend
chrome
top groove
compression
rings for
replacement**

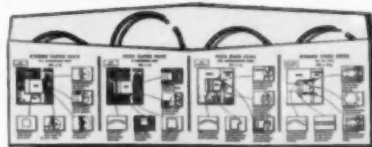
A FULL CHROME RING SET Pre-seated Krome-Oil fits truck manufacturers' "specs" best. Chrome top groove compression ring, chrome on the side rails of the oil ring. It's a full chrome ring set—assures longer, more efficient operation.



**Pre-seated for
instant oil control**

Pre-seating is a factory-applied lapping process equivalent to hundreds of miles of actual engine operation. Krome-Oil seats fast . . . delivers instant oil control . . . requires less down time.

AMERICAN HAMMERED
Pre-seated Krome-Oil Piston Ring Sets



All-in-one Ring Envelope contains rings in installation sequence. A real time-saver for the mechanic.

FREE—helpful shop manual

32 Reasons for Oil Consumption—an easy-to-use, illustrated, indexed manual listing 32 major oil consumption problems and remedies. Prepared by one of the top technical staffs in the field. Write—Oil Consumption Manual, American Hammered, Dept. A, 2001 Sanford St., Muskegon, Mich.

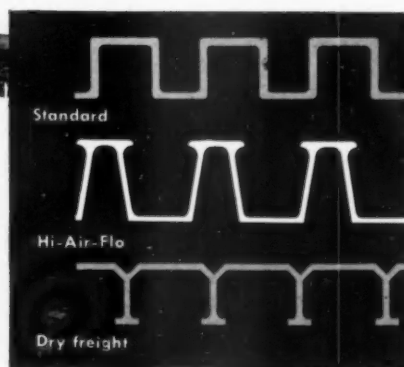
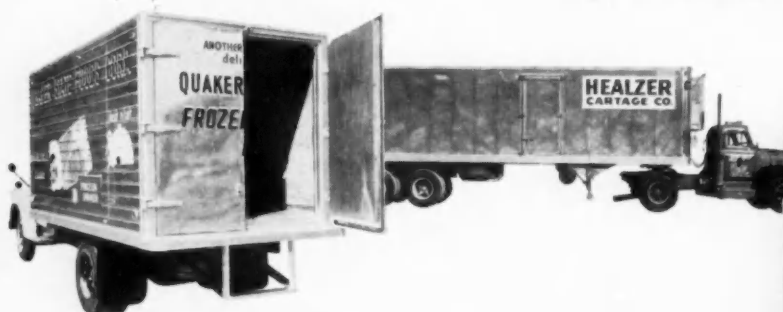
American Hammered

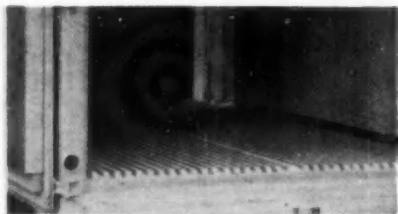
AUTOMOTIVE REPLACEMENT DIVISION • 2001 Sanford Street, Muskegon, Michigan
Manufacturers of American Hammered Automotive Replacement Piston Rings.
A Division of Sealed Power Corporation

INSTALL KROME-OIL . . . rings that keep your rigs on the road longer!



Tested and proved in hundreds of reefers—
Revere Aluminum Floor Sections *and now . . .*





Heavy Duty Reefer Sections—and in addition provide 60% more air circulation under the cargo. This is accomplished with only a $\frac{3}{8}$ " increase in the height of the floor boards, so cargo space remains virtually undiminished.

Revere Aluminum Reefer Floor Sections are an outstanding example of what you can gain with light-weight parts designed by men who know aluminum. The proof is that Revere Floor Sections are preferred by many leading truck-trailer manufacturers, body builders and fleet operators, and are delivering flawless service in hundreds of refrigerated trucks and trailers throughout the country.

Revere's new Hi-Air-Flo Floor Sections have all the desirable features of Revere Standard and

60% more air circulation with Revere's Hi-Air-Flo Sections

Hi-Air-Flo, like other Revere Reefer Sections, have an exclusive interlocking design* which forms a mechanically tight lock in two directions. Properly installed, a Revere floor is watertight and completely protects insulation against seepage from inside the body. There are no bolt-holes through which such water can leak. Likewise, all bolts are concealed, making it easy to maintain high standards of sanitation.

Both Revere Hi-Air-Flo and Standard Reefer Sections have matching Multi End-Plug Aluminum Castings for finishing the ends of the floor. Properly installed, they form a continuous assembly across the entire width of the floor, provide a watertight seal, and protect floor-board ends from damage by materials handling equipment. Saving hours of installation time, they have proved to be the quickest, neatest way of finishing the ends of a floor.

An additional feature of great importance to body builders and repair shops is the availability of Revere Aluminum Starter Strips. The starter strip is installed at or near the centerline of the body and the floor is built outward from it toward each side. Should an accident ever cause damage to the floor, only that half need be taken up to which repairs must be made.

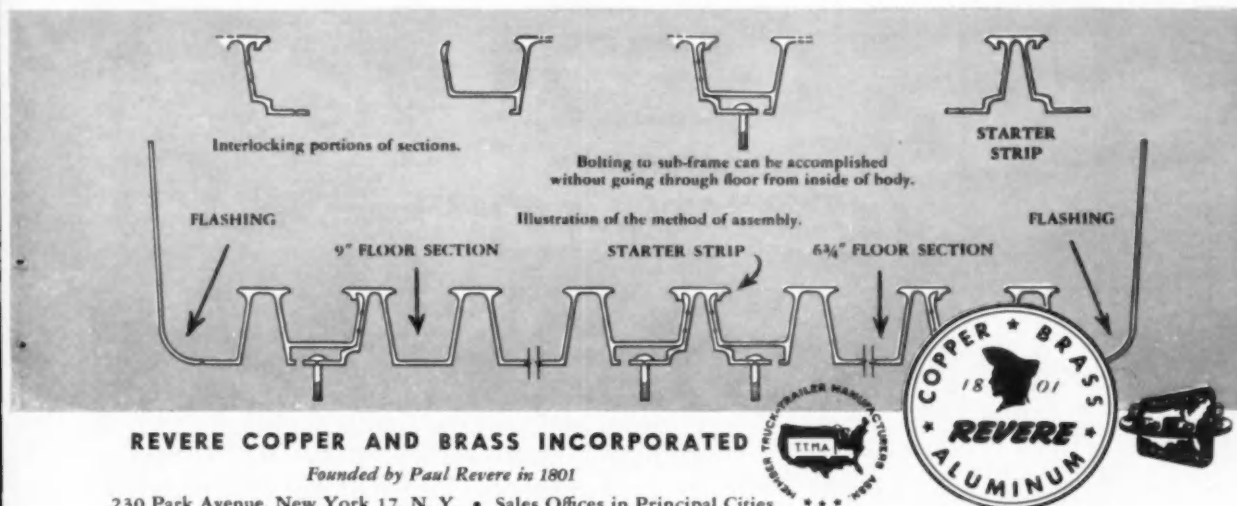
All types of Revere Floor Sections come in $6\frac{3}{4}$ " and 9" widths. These, with the flashing sections and starter strips, will make up a floor for virtually any width of body. They can be bought as a unit, singly, or in any combination.

Revere also has Aluminum Dry Freight Floor Sections with the same unique interlocking design*. They provide an extra strong load bearing surface, make possible a watertight floor, and include the great advantage of starter strip installation.

Heat treated aluminum alloys are generally used for floor sections but, for extra heavy loads, all Revere floors can be supplied in extra strength heat treatable alloys. A Revere Technical Advisor will gladly consult with you about this and other matters pertaining to the use of metals. *Revere Aluminum Floor Sections are maintained in stock for immediate shipment.*

Write or phone today for full details on Revere Aluminum Floor Sections—and for information on Revere's new Ice Cream Body and Refrigerated Foods Body Designs. Ask your body builder, automotive parts distributor or the nearest Revere Sales Office for complete information.

*Patent applied for



REVERE COPPER AND BRASS INCORPORATED

Founded by Paul Revere in 1801

230 Park Avenue, New York 17, N. Y. • Sales Offices in Principal Cities



creepers to detergents .

CCJ'S PRODUCT DIRECTORY

CREEPERS, Mechanic

Ashland Mfg. Co., 2021 Ashland Ave., Baltimore 5, Md.
Balcrank, Inc., Disney St. nr. Marsburg, Cincinnati, Ohio.
Clinton Products Co., 701 Tecumseh Rd., Clinton, Mich.
Huffman Mfg. Co., Automotive Div., P. O. Box 310, Delphos, Ohio. (Metal, also wood.)
Kay-Wood Products, Inc., Bedford, Pa. (Wood.)
P. & B. Specialties Co., 551 N. 2nd St., Philadelphia 23, Pa.
Parker Prods. Co., Pollock Rd., Delaware, Ohio.
R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio. (Sole distributors, Lisle Corp., 809 E. Main St., Clarinda, Iowa.)
Smash-Proof Co., 6000 State Ave., Ashtabula, Ohio. "Smash-Proof" (with or without brake).
Wilson, Inc., K. R., Arcade, N. Y.

CUSHIONS, Seat, Rubber

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Dunlop Tire & Rubber Corp., Sheridan Drive & River Road, Buffalo 5, N. Y.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio. (Foamed latex.)
General Seating Co., 220 Main St., Tipton, Pa.
Goodrich Co., B. F., Sponge Prods. Div., Howe Ave., Shelton, Conn.
Goodyear Tire & Rubber Co., Akron 16, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.
Karpex Mfg. Co., 1436 E. 19th St., Indianapolis 7, Ind.
New York Rubber Corp., Airubber Div., 100 Park Ave., New York 17, N. Y.
Perma Seating Co., 8800 Kinsman Rd., Cleveland 4, Ohio.
United States Rubber Co., U. S. Koylon Foam Div., Mishawaka, Ind.

CUSHIONS, Seat, Spring

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Fert Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 33, Pa.
General Seating Co., 220 Main St., Tipton, Pa.
Goshen Cushion & Body Co., N. Second St., Goshen, Ind.
Perma Seating Co., 8800 Kinsman Rd., Cleveland 4, Ohio.
Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich.

CUTTERS, Tubing, Hand

Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Herbrand Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kennedy Service Tools, Inc., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Reed Mfg. Co., Box 1321, Erie, Pa. (Pipe.)
Rinck-McIlwaine Inc., 16 Hudson St., New York 13, N. Y.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.

Trimont Mfg. Co., Div. of St. Pierre Chain Corp., 50 Frank St., Worcester 4, Mass.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind.

CYLINDER DE-GLAZERS, See De-Glazers, Cylinder

CYLINDER HONES, See Hones, Cylinder

CYLINDER LINER, See Sleeves, Cylinder

CYLINDER LUBRICATORS, See Lubricators, Upper Cylinder

CYLINDER REBORING TOOLS, See Tools, Cylinder Reboring, Portable

CYLINDER RIDGE REAMER, See Reamers, Cylinder Ridge

DECALCOMANIAS

American Decalcomania Co., Inc., 4326 5th Ave., Chicago 24, Ill.
Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.
Excello Specialty Co., 4111 E. 100 St., Cleveland 5, Ohio.
Jaco-Lac Decal Co., 234 S. Wells, Chicago 6, Ill.
Meyercoord Co., 5323 W. Lake St., Chicago 44, Ill.
Ohio Decalcomania Co., 4103 E. 100 St., Cleveland 5, Ohio.
Palm Bros. Decalcomania Co., 3736 Regent St., Cincinnati, Ohio.
Palm, Fechteler Co., 85-99 Maple St., Weehawken, N. J.
Permalux Co., 500 Rathbone Ave., Aurora, Ill.
Screenmasters, 128 32nd St., Brooklyn 32, N. Y.

DECELEROMETERS, See Meters, Brake Testing

DEFROSTERS, Glass Shield

Arvin Industries, Inc., 13th St. & Big Four R.R., Columbus, Ind.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Evans Products Co., 13101 Eckler's Rd., Plymouth, Mich. (Locking.)
Henry Mfg. Co., 421 5th Ave. So., Minneapolis, Minn.
Western Cable & Light Co., 395 Sibley St., St. Paul, Minn.

DEFROSTING FANS, See Fans, Defrosting

DEGAASSERS, Bus

Fageol Co., R. D., Box 328, Kent, Ohio.

DE-GLAZERS, Cylinder

Burd Piston Ring Co., Div. of Gabriel Co., 1401 23rd Ave., Rockford, Ill.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Storm-Vulcan Inc., 2225 Burbank St., Dallas 19, Tex.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

DEGREASERS, See Washers, Metal Parts

DEGREASING COMPOUNDS, See Solvents, Oil, Carbon and Grease Removing

DEPRESSORS, Brake Pedal

Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Manbee Equipment, Div. of Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Robinson Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Waterloo Valve Spring Compressor Co., 300 Ansbrough Ave., Waterloo, Iowa.

DERRICKS, See Cranes, Service Truck

DETERGENTS, Washing

Advance Century Mfg. Co., P. O. Box 781, Greenville, S. C.
Atomix, Inc., Box 486, Wilmington 99, Del.

Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif.
Colorgio Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Commercial Solvents Corp., 260 Madison Ave., New York 17, N. Y.
Crystal Soap & Chemical Co., 6300 State Road, Philadelphia 35, Pa. (Soap.)
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Drew Co., E. F., 15 E. 26th St., New York, N. Y.
du Pont de Nemours & Co., E. I. Chemical Specialties Div., Wilmington, Del.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
Jones Products, Inc., 276 Third St., Cambridge 42, Mass.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Lac-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio.
Lavo Co. of America, 300 N. Seventh St., Milwaukee 3, Wis.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn.
Miller Mfg. Co., 1100 N. 32nd St., Camden, N. J. "Washettes" (Capsules.)
Motor Kool Products Co., 505 Buttle Ave., Columbus 8, Ohio.
Murphy-Phoenix Co., Div. of Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Oronite Chemical Co., 38 Sansome St., San Francisco 4, Calif.
Penetone Co., 74 Hudson Ave., Tenafly, N. J.
Permo Products Co., 1529 Platte St., Denver 2, Colo.
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Seller Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.
Service Supply Co., 1115 Seventh St., Denver, Colo.
Shur-Gloss Mfr. Co., 3556 N. Knox Ave., Chicago 41, Ill.
Socony-Vacuum Oil Co., 25 Broadway, New York 4, N. Y.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.
Tudor Chemical Specialties, Inc., 141 Woodworth Ave., Yonkers 2, N. Y.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo.
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.
"X" Laboratories, Inc., 25 W. 45th St., New York 36, N. Y.
Zeol, Inc., 3270 S. Third St., Milwaukee 7, Wis.

DIAL GAGES, See Gages, Dial
DIESEL ENGINES, See Engines, Diesel
DIESEL ENGINE FUEL FILTERS, See Filters, Diesel Fuel
DIESEL EQUIPMENT TESTERS, See Testers, Diesel Equipment
DIESEL FUEL, See Fuels, Engine

Over the Road... or Off the Highway WAUKESHA

TURBO-SUPERCHARGED DIESELS

MODEL	Cyl.	*Features	Bore and Stroke	Displ. Cu. In.	Max. Torque @ RPM	Max. HP	RPM
135-DKBS	6	ACTV	4¼x5	426	400-1800	185	2800
148-DKBS	6	ACTV	5¼x6	779	706-1800	280	2100
WAKDBS	6	ACTV	6¼x6½	1197	1062-1600	352	1800

NORMAL DIESELS

185-DLC	6	A	3½x3¾	216	152-1200	60	2400
190-DLCA	6	AC	3¾x4	265	191-1400	85	2800
195-DLCA	6	AC	4 x4	302	221-1800	98	2800
135-DKB	6	ACV	4¼x5	426	328-1600	147	2800
148-DKB	6	ACV	5¼x6	779	584-1000	200	2100
WAKDB	6	ACV	6¼x6½	1197	845-1000	258	1800

GASOLINE

185-GLB	6	A	3½x3¾	216	176-1400	67	2400
190-GLB	6	A	3¾x4	265	220-1200	77	2400
195-GKA	6	ACV	4¼x4	320	243-1600	122	3000†
MZA	6	A	4¼x4¾	404	289-1000	128	2800†
135-GKB	6	ACV	4¼x5	426	337-1200	147	2800†
135-GZB	6	ACV	4¾x5	451	354-1200	153	2800†
140-GKB	6	ACV	4½x5½	525	425-1000	177	2600†
140-GZB	6	ACV	4¾x5½	554	448-1100	188	2600†
145-GKB	6	ACV	5¼x6	779	595-1000	240	2400†
145-GZB	6	ACV	5¾x6	817	630-1100	250	2400†
WAKB	6	ACV	6¼x6½	1197	1000-1000	280	1800

*FEATURES: A—Aluminum Alloy Pistons; C—Counterbalanced Crankshaft; T—Turbo-Supercharged; V—Vibration Damper.

†These engines rated at higher hp and rpm for fire engine service. Send for Bulletin 1079 for LPG ratings and complete listing of engine hp and speed ratings.

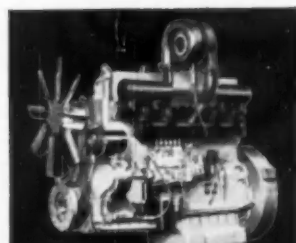


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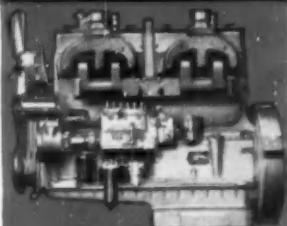


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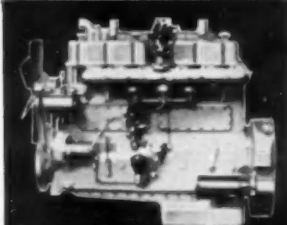
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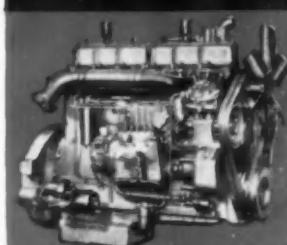
1197 cu. in. Supercharged Diesel



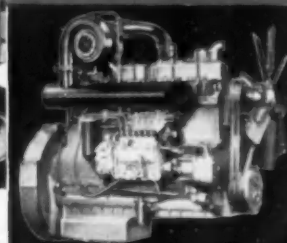
1197 cu. in. Diesel



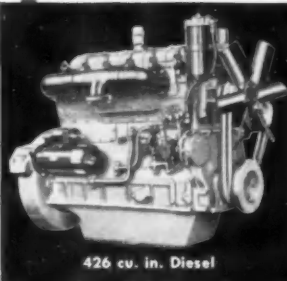
817 cu. in. Gasoline or LPG



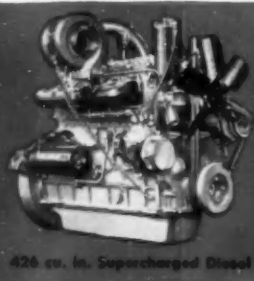
779 cu. in. Diesel



779 cu. in. Supercharged Diesel



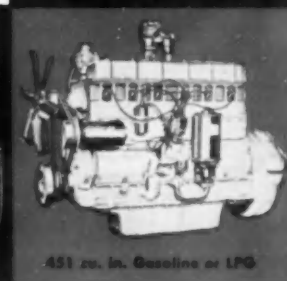
426 cu. in. Diesel



426 cu. in. Supercharged Diesel



554 cu. in. Gasoline or LPG



451 cu. in. Gasoline or LPG

differentials to drills

CCJ'S PRODUCT DIRECTORY

DIESEL INJECTOR EQUIPMENT. See Injector Systems, Gasoline & Diesel Engine

DIFFERENTIAL CLEANERS. See Flushers, Differential and Transmission

DIFFERENTIALS

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Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif. (Chain drive and double reduction.)

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.

Detroit Automotive Products Corp., 5701 Grinnell Ave., Detroit 13, Mich. (Automatic locking.)

Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.

Dualoc Drive, Inc., 700 20th St., Rockford, Ill. (Locking.)

Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.

Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.

New Process Gear Co., 500 Plum St., Syracuse, N. Y.

DIMMER, Headlight, Electronic

Guide Lamp Div., General Motors Corp., Anderson, Ind.

DIRECTIONAL SIGNAL SWITCHES. See Switches, Direction Indicating Signal

DIRECTIONAL SIGNALS. See Signals, Direction Indicating

DISCS, Abrasive Grinding

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.

Armour & Co., Curled Hair & Coated Abrasives Div., N. Benton Rd., Alliance, Ohio.

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.

Bay State Abrasive Products Co., 12 Union St., Westboro, Mass.

Behr-Manning Corp., 5156 Howe St., Troy, N. Y.

Besley-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.

Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. (Also sanding pads.)

Clover Mfg. Co., Norwalk, Conn.

Field Abrasive Mfg. Co., 1303 Stanley Ave., Dayton 4, Ohio.

Gardner Machine Co., 444 E. Gardner St., Beloit, Wis.

Maroon Corp., 115 Mill St., Revere, Mass.

Mid-West Abrasive Co., 510 S. Washington St., Owoeso, Mich.

Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.

Norton Co., 1 New Bond St., Worcester 6, Mass.

Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.

Simonds Abrasive Co., Tacony & Fraley Sts., Philadelphia 37, Pa.

DISPENSERS, GREASE. See Lubricators, Portable, High Pressure

DISTRIBUTOR PARTS. See Parts, Magneto, Coil and Distributor

DISTRIBUTORS, Ignition

Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.

Electric Auto-Lite Co., Toledo 1, Ohio.

Freedco Products, Inc., 154 Nassau St., New York, N. Y.

Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.

Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Also combination governor and distributor.)

Paragon Products Corp., 140 Astor St., Newark 6, N. J.

Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.

Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

DISTRIBUTOR TESTING INSTRUMENTS. See Instruments, Distributor Testing

DOCKS, Adjustable—See Ramps, Truck Loading

DOLLIES, Axle

Bacharach Industrial Instrument Company, 7000 Bennett, Pittsburgh 8, Pa.

Saginaw Products Corp., 68 Williamson St., Saginaw, Mich. (Trailer.)

Wilson, Inc., K. R., Arcade, N. Y. (Rear.)

DOLLIES, Truck Wheel

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hathboro, Pa.

Bennett-Feragen, 1408 Jerome St., Niles, Mich.

Bernard Franklin Co., Hedley & Bath Sts., Phila. 37, Pa.

Clark-Feather Mfg. Co., 116 W. Railroad Ave., Fort Morgan, Colo.

Dixie Tallyho Inc., Fairburn, Ga.

Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.

Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.

Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.

Ken-Tool Mfg. Co., 768 E. North St., Akron, Ohio.

Immel Co., 502 N. Vermilion, Streator, Ill.

Melouz Mfg. Co., 4730 Avalon Blvd., Los Angeles, Cal.

Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.

Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 4, Ind.

Unified Parts Inc., 35 Roetzer St., Buffalo 11, N. Y.

Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

DOOR OPENERS. See Openers, Bus Door

DOORS, Overhead, Garage

(Advertisers Only)

Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio.

DOORS, Overhead, Truck and Trailer

Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Truck body.)

Truk-A-Door Co., 2457 Woodward Ave., Detroit 1, Mich.

DOORS, Truck, Steel

Hackney & Son, J. A., 400 Hackney Ave., Washington, N. C. (Plastic.)

Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio. (Rolling.)

Kirk & Blum Mfg. Co., 2901 Indiana Ave., Chicago, Ill.

Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.

Truk-A-Door Co., 2457 Woodward Ave., Detroit 1, Mich. (Roll-up.)

DRAINERS, Crankcase Oil, Portable and Rapid Type

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.

Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.

Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.

Choldun Mfg. Corp., 331 East St., New Haven, Conn.

Lothro Inc., 2930 E. Highland Ave., Cincinnati 12, Ohio.

Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla.

Smith Mfg. Corp., Grover, 805 E. Valley Blvd., San Gabriel, Calif.

Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 8, Ohio.

Wherry Engrg. Co., 3229 Morganford Rd., St. Louis 16, Mo.

DRAIN PLUGS, Crankcase

Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize.)

Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.

Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.

Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.

Houser Engng. & Mfg. Co., Bluffton, Ind. (Oversize.)

Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.

Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Magnetic.)

Magnetic Drain Plug Co., Wellington, Ohio. (Magnetic.)

Set Screw & Mfg. Co., 270 Main St., Bartlett, Ill.

Tourek Mfg. Co., J. J., 1901 S. Kilbourn Ave., Chicago 23, Ill.

U. S. Plug & Fitting Co., 1807 22nd St., N. E., Canton 5, Ohio. (Magnetic.)

Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa. (Oversize.)

Weatherhead Co., 300 E. 13th St., Cleveland 8, Ohio.

DRESSERS, Grinding Wheel

Abrasive Dressing Tool Co., 14528 2nd Blvd., Detroit 3, Mich.

Black & Decker Mfg. Co., 692 Pennsylvania Ave., Towson 4, Ind.

Bunke-Musser Inc., Box 386, Jackson Center, Ohio.

Carboloy Dept. General Electric Co., 11177 E. Eight Mile Rd., Detroit 32, Mich.

Cleveland Industrial Tool Co., 1080 E. 222nd St., Cleveland 17, Ohio.

Desmond-Stephen Mfg. Co., 317 S. Walnut St., Urbana, Ohio.

Dessau Co., Maurice S., 535 Fifth Ave., New York 17, N. Y.

Diamond Drill Carbon Co., 53 Park Row, New York, N. Y.

Diamond Tool Co., 246 Broadway, South Haven, Mich.

Hanchett Mfg. Co., 906 N. State St., Big Rapids, Mich.

Industrial Diamond Co., 2392 Wolcott Ave., Ferndale 20, Mich.

J. & S. Tool Co., 87 Dorsa Ave., Livingston, N. J.

Last Word Sales Co., 18500 Mt. Elliott Ave., Detroit 34, Mich. (Radius.)

Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D.

Metal Carbides Corp., 107 E. Indiana Ave., Youngstown 7, Ohio.

Moore Special Tool Co., 740 Union Ave., Bridgeport, Conn.

Pratt & Whitney Co., Charter Oak Blvd., W. Hartford, Conn.

Rineck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.

Ross Mfg. Co., 6210 Carnegie Ave., Cleveland 3, Ohio.

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

Standard Diamond Tool Corp., 64 W. 48th St., New York, N. Y.

Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.

Vincent Steel Process Co., 2424 Bellevue Ave., Detroit 7, Mich.

Wheel Truening Tool Co., 3200 W. Davison Ave., Detroit 38, Mich.

DRILL GRINDERS. See Grinder, Drill

DRILL PRESSES

Atlas Press Co., 1342 N. Pitcher St., Kalamazoo 13D, Mich.

Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.

Cleereman Machine Tool Corp., 600 Elizabeth St., Green Bay, Wis.

Dumore Co., 1300 17th St., Racine, Wis.

Leland-Gifford Co., 1001 Southbridge St., Worcester 3, Mass.

Morris Machine Tool Co., 933 Harriet St., Cincinnati 3, Ohio.

Rockwell Mfg. Co., Delta Power Tool Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.

South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.

Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.

DRILLS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.

Buckeye Tools Corp., 5905 Sprinboro Pike, Dayton 9, Ohio.

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.

Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.

**"Over 100,000 miles with no engine work
using Cities Service C-300 motor oil!"**



Performance record provided by Tachographs is another way in which Yule Truck Lines lengthens the period between overhauls, cuts maintenance costs. "Tachographs and Cities Service form a perfect combination," says Secretary-Treasurer B. F. Riel.



Yule Truck Awaits Loading. With 60 drivers, 30 tractors, and 40 trailers, Yule carried 95,000 tons during 1955, running up over 1,200,000 miles! Nevertheless, three trucks required absolutely no engine work after 100,000 miles each, using Cities Service C-300 Motor Oil!

Yule Truck Lines, Inc., Milwaukee, Wisconsin

Remarkable as it may sound, that's the experience of Yule Truck Lines, Inc. with three R-195 International tractors using Cities Service C-300 Motor Oil.

Absolutely no work needed after 100,000 miles! And that's all the more impressive when you consider that Yule operates 24 hours a day carrying capacity loads between Milwaukee and Chicago . . . a rugged job that used to require overhaul every 60,000 miles before the switch to highly-detergent C-300 Oil for heavy duty service.

Says Secretary-Treasurer B. F. Riel: "The results we've been receiving with all Cities Service products are outstanding. We have 30 tractors, 40 semi-trailers, and 15 pick-up trucks—and each of these units gives longer trouble-free performance than ever before, thanks to Cities Service Lubrication."

If you're not getting enough mileage between overhauls, why not talk with a Cities Service Lubrication Engineer. Chances are he can extend that period by thousands of miles. Call him over and make him prove it. Or write: Cities Service Oil Company, Sixty Wall Tower, New York 5, N. Y.

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drills to engines

CCJ'S PRODUCT DIRECTORY

DRILLS, Electric—continued

Cummins Portable Tools Div. of John Oster Mfg. Co., 8055 N. Lydell Ave., Milwaukee 17, Wis.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Kent-Moore Organization, Inc., 5-195 General Motors Bldg., Detroit 2, Mich.
Kett Tool Co., 5 E. Third St., Cincinnati 2, Ohio.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Portable Elec. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.
Rotor Tool Co., 23690 Lakeland Blvd., Cleveland 32, Ohio.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Speed Way Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntro Co., 495 N. Lexington Ave., Homer City, Pa.
Thor Power Tool Co., 175 State St., Aurora, Ill.
United States Electrical Tool Div. Emerson Electric Mfg. Co., 1050 Findlay St., Cincinnati 14, Ohio.
Wen Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.
Wilson, Inc., K. R., Arcade, N. Y.

DRILLS, Portable Pneumatic

Air-Speed Tool Co., 1502 W. Slawson Ave., Los Angeles 47, Calif.
Aro Equipment Corp., Bryan, Ohio.
Brown Tool Mfg. Co., 9422 Trenton Ave., St. Louis 14, Mo.
Buceye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y.
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland, Ohio.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
Rotor Tool Co., 23690 Lakeland Blvd., Cleveland 32, Ohio.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.

DRIVER TESTING EQUIPMENT, See Testers, Driver

DRIVERS, Bushing

Atmara Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N. Alliance, Ohio.
Cal-Van Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Roscobel, Wis.
Indestro Mfg. Co., 2649 N. Kilare Ave., Chicago, Ill.
Mechanics Tool & Forge Co., Howard St., Sabina 1, Ohio.
Miller Co., L. B., 394 State St., Stamford, Conn.
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

DRUMS, Brake

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum fins bonded to cast iron.)
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa. (Combination iron and steel.)
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. "Cannonite." (Sand cast.)
Copperweld Steel Co., Glassport Div., Glassport, Pa. (Pressed steel with copper fins.)
Crosby Co., 183 Pratt St., Buffalo, N. Y. (Pressed steel.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Cast alloyed iron.)
Frank Foundries Corp., 2029 Third St., Moline, Ill.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.
Homan & Co., 611 Reading Rd., Cincinnati 15, Ohio.
Hunt-Spiller Mfg. Corp., 383 Dorchester Ave., South Boston 27, Mass. "Hunt-Spiller Air Furnace Gun Iron." (For buses or trucks.)
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. "Kaloy." (For truck trailers.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Composite iron and steel.)
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
Reynolds Mfg. Co., 600 Prospect Ave., Springfield 2, Mo. "Reycro." (Specially alloyed iron.)
Shuler Axle Co., 2301 S. Second St., Louisville 8, Ky. (Special alloy iron.)
Transue & Williams Steel Forging Corp., 600 Ely St., Alliance, Ohio. (Pressed steel.)

DRYING LAMPS, See Lamps, Drying, Baking and Heating

DYNAMOMETERS, Chassis Testing

Bennett-Feragen, Inc., 1005 South Lafayette Blvd., South Bend 18 Ind.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
Nankervis Co., George L., 19255 W. Davison Ave., Detroit 23, Mich.
Otis Elevator Co., 260 11th Ave., New York 1 N. Y.

DYNAMOMETERS, Engine Testing

Clayborne Mfg. Co., 429 N. Main St., Montecello, Ind.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)
Eaton Mfg. Co., Dynamic Div., 3307 14th Ave., Kenosha, Wis. (Eddy current.)
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y. (Electric.)
Link Engrg. Co., 13845 Elmira Ave., Detroit 27, Mich. (Electric.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
Nankervis Co., George L., 19255 W. Davison Ave., Detroit 23, Mich.
Taylor Dynamometer & Machine Co., 6411 River Parkway, Milwaukee 13, Wis.
Toledo Scale Co., Telegraph Rd., Toledo 1, Ohio.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

ELECTRODES, WELDING, See Rods, Welding

ELECTROLYTE, Battery Acid

American Cynamid Co., 30 Rockefeller Plaza, New York 20, N. Y.
Deleo-Kenny Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
du Pont de Nemours & Co., E. I., Grasselli Chemicals Dept., Wilmington 98, Del.
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
Motor Kool Prods. Co., 505 Buttes Ave., Columbus 8, Ohio.

EMERY CLOTH, See Sandpaper

ENAMELS, Synthetic Resin Base

(See also Lacquers)

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio.
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa.
American Paint Co., 902 Larabee St., Chicago 10, Ill. "Dalax." (For commercial vehicles.)
American Varnish Co., 1158 N. Branch St., Chicago 22, Ill. "American," "Artapar."
Aro Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Automotive Finishes, Inc., P. O. Box 487, Northwestern Station, Detroit 4, Mich.
Baer Bros., 438 W. 37th St., New York, N. Y.
Brown Co., Andrew, 5431 District Blvd., Los Angeles 22, Calif.
Bruning Bros., Inc., 4209 E. Chase St., Baltimore 5, Md.
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 148rd St., Cleveland 11, Ohio.
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn.
Glidden Co., 11001 Madison Ave., Cleveland, Ohio.
Hock Paint, Inc., Box 190, Phoenixville, Pa.
Horn Co., A. C., 10th St. & 44th Ave., Long Island City 1, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago, Ill.
Interstate Enamel & Varnish Co., 323 W. 15th St., Indianapolis, Ind.
McDougall-Butler Co., 2929 Main St., Buffalo 14, N. Y.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio.
Modern Paint Co., 305 Eastern Ave., Chelsea 50, Mass.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo.
Nason & Co., R. N., 151 Potrero Ave., San Francisco 3, Calif.
Oxidorm Products, Inc., Springfield, Mich.
Pittsburgh Plate Glass Co., Paint Div., 1 Gateway Center, Pittsburgh 22, Pa.
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio.
Rinsched-Mason Co., 5935 Milford St., Detroit 10, Mich.
Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Seymour of Sycamore, Inc., 218 Lucas St., Sycamore, Ill.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
Standard-Toch Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
United Chromium Div., Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich. "Ve-Kote."
Vita-Var Corp., 46 Albert Ave., Newark, N. J.
Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.
Wilbur & Williams Co., 130 Lincoln St., Brighton, Mass.
Woolsey Paint & Color Co., C. A., 229 E. 42nd St., New York, N. Y.
Zac-Lac Paint & Lacquer Corp., 350 Simpson St., N.W., Atlanta 13, Ga.

ENGINES, Diesel, Truck and Bus

Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.
Continental Motors Corp., Muskegon 82, Mich. (Truck, tractor, bus and marine.)
Cummins Engine Co., Fifth & Union Sts., Columbus, Ind.
Diesel Engine Corp., 145 Liberty St., New York 6, N. Y. (Deuts.)
Fageol Products Co., 789 Stow St., Kent, Ohio.

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we have 'em!**

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Custom tailored at East Akron Tarpaulin Company are made not only to fit any required dimensions but they must fit the use for which they are intended. All the features of ordinary tarps plus the experience of a pioneer trucker give our product plus performance.

COTTON CANVAS TARPULINS

Only the best water repellent cotton canvas available in all weights is used in making our regular triple stitched tarps.

GEON SHELTER LIGHT TARPS

are the strongest tarps made. All seams except nose cap, are electronically sealed. Grammetts are reinforced. Proved best tarpaulin material in Government and private tests.

SERVICE DEPT.

When a tarp needs repair our men in the service department do a thorough job with all possible speed — patching — sewing — installing new grammetts and inspecting. We offer pick-up and delivery service.



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Owner of East Akron Tarpaulin Co. and East Akron Ratchet & Mfg. Co. His experience as a real pioneer of the trucking industry has benefited all who use his service and products.

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BRING YOUR OPEN TOP TRAILERS UP TO DATE . . . Install the NEW RIDGE ROPE RATCHETS

From coast to coast our Ridge Rope Ratchet is eliminating the out-moded iron ridge pole. It does away with heavy overhead lifting and operates with a minimum of effort. One man can tighten the easily accessible Ridge Rope in seconds. High loads can be protected by letting out extra rope length and the ridge support to tarp is continued.

The rope can be made as taut as required to support the tarpaulin. It stays taut regardless of weight from snow or rain and decreases wet freight claims.

Our Ridge Rope Ratchets are sturdily constructed of an aluminum alloy having the strength of steel. With normal use it will last the lifetime of your trailer. Its cost, together with all hardware for installation, is less than the expense of replacing one iron pole. Bring your trailers up to date. Install Ridge Rope Ratchets Now!

- SAVE TIME
- INCREASE PAYLOADS
- ELIMINATE ACCIDENTS
- SAVE COSTS OF ORIGINAL EQUIPMENT



"We find this type of equipment requires much less maintenance than the pipe ridge pole. It saves labor as well as time," says Earl Sawers.

**EAST AKRON TARPULIN CO.
EAST AKRON RATCHET & MFG.CO.**

1048 BANK ST., AKRON 5, OHIO, U. S. A.

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engines to extractors

CCJ'S PRODUCT DIRECTORY

ENGINES, Diesel—continued

GMC Truck & Coach Div. General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.
Hercules Motors Corp., 101 11th St., S. E. Canton 2, Ohio.
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J.
P & H Diesel Engine Div., Harnischfeger Corp., 600 S. Main St., Crystal Lake, Ill.
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.

ENGINES, Gasoline, Small

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis. (Single cylinder, 4-cycle air-cooled.)
Clinton Machine Co., Maple & Clark Sts., Maquoketa, Ia.
Continental Motors Corp., Muskegon 82, Mich.
Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.
Gladden Products Corp., 635 W. Colorado Blvd., Glendale 4, Calif. "Bee-Line."
Homelite Corp., Port Chester, N. Y.
Jacobsen Mfg. Co., 747 Washington Ave., Racine, Wis.
Kermath Mfg. Co., 5890 Commonwealth Ave., Detroit 8, Mich.
Kohler Co., Kohler, Wis. (Air cooled.)
Lauson Co., 1604 Michigan St., New Holstein, Wis.
McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 46, Calif.
Onan & Sons, Inc., D. W., University Ave., S. E. at 25th St., Minneapolis 14, Minn.
Power Products Corp., Grafton, Wis.
Reo Motors, Inc., 1331 So. Washington Ave., Lansing 20, Mich.
Sensation Mower, Inc., 7577 Burlington St., Ralston, Nebr.
Universal Motor Co., 487 Universal Drive, Oshkosh, Wis.
West Bend Aluminum Co., West Bend, Wis.
Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

ENGINES, Gasoline, Truck and Bus

(Covering independent engine manufacturers)

Aircooled Motors, Inc., Liverpool Rd., Syracuse 4, N. Y.
Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.
Brennan Motor Mfg. Co., 600 E. Water St., Syracuse, N. Y. (Truck.)
Continental Motors Corp., Muskegon 82, Mich.
Fargo Products Co., 789 Stow St., Kent, Ohio.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.
Hall-Scott Motors Co., 2850 Seventh St., Berkeley 10, Calif. (Truck, bus and fire truck.)
Hercules Motors Corp., 101 11th St., S. E. Canton 2, Ohio.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Le Roi Div. Westinghouse Air Brake Co., 1706 E. 68th St., Milwaukee 14, Wis.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing 20, Mich.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
Waukesha Motor Co., E. St. Paul Ave., Waukesha, Wis. (Truck, tractor and bus.)
Willys Motors, Inc., Kaiser Motors Corp., 904 N. Cove Blvd., Toledo, Ohio. (Truck.)

EXCHANGERS, HEAT, See Coolers, Oil Temperature

EXHAUST GAS INDICATOR, See Indicators, Carbon Monoxide

EXHAUST GAS REMOVING SYSTEMS

Car Mon Products Co., 4554 N. Broadway, Chicago 40, Ill.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Moffatt Prods. Inc., 4824 Triton Dr., Minneapolis 22, Minn.
National System of Garage Ventilation, Inc., 330 North Church St., Decatur, Ill.

EXHAUST PIPES, See Pipes, Tail and Exhaust

EXHAUST PROTECTOR

(For Vertical Stack)

Canton Cast Products Co., 2400 13th St., N. E., Canton, Ohio.

EXPANDERS, Bead, Tubeless Tire

Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
Bishman Mfg. Co., Osseo 26, Minn.
Cleveland Graphite Bronze Co., Div. of Clevite Corp., 17000 St. Clair Ave., Cleveland 10, Ohio. (Sole distributor to replacement trade Clevite Service, 6545 Carnegie Ave., Cleveland 3, Ohio.)
Dalton Foundries Inc., Lincoln & Jefferson Sts., Warsaw, Ind.
Dixie Tallyho Inc., Fairburn, Ga.
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.
Jefferson Engrg. & Mfg. Co., 269 Walker St., Detroit 7, Mich.
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)

EXPANDERS, Piston Ring

American Hammered Automotive Replacement Division, 2001 Sanford St., Muskegon, Mich.
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. (Expanding.)
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Royal Piston Ring Co., Bath, N. Y.
Smalley Accessories Corp., 224 W. Huron St., Chicago, Ill.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

EXPANDERS, Piston Skirt Inserts

Burd Piston Ring Co., Div. of Gabriel Co., 1401 23rd Ave., Rockford, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.
Thexton Mfg. Co., 7600 Highway 7, Minneapolis 16, Minn.
Wel-Ever Piston Ring Co., Speilbusch Ave., nr. Jackson St., Toledo 1, Ohio.
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo.

EXPANDERS, Piston Skirt

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. (Electric.)
Badger Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.
Burd Piston Ring Co., Div. of Gabriel Co., 1401 23rd Ave., Rockford, Ill.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich. (Air operated hammers.)
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
Master Products Mfg. Co., 3480 E. 14th St., Los Angeles 23, Calif.
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6653 Easton Ave., St. Louis 14, Mo.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wauveu Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.


EXTINGUISHERS, Fire, Portable

Allen Mfg. Co., 566 W. Lake St., Chicago, Ill.
American-LaFrance Corp., 100 E. LaFrance St., Elmira, N. Y.
Ansol Chemical Co., Fire Extinguisher Div., Marinette, Wis. (Dry chemical.)
Anthes Force Oiler Co., Ft. Madison, Iowa.
Astoria Mfg. Co., 42-02 Vernon Blvd., Long Island City 1, N. Y.
Beacon Devices, Inc., 74 Olive St., North Tonawanda, N. Y. (Portable units, inflates tires or extinguishes fires.)

Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
Buffalo Fire Appliance Corp., 221 Crane St., Dayton 1, Ohio.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill.
Diets Co., R. E., 225 Wilkinson St., Syracuse, N. Y.
Elkhart Brass Mfg. Co., 1302 W. Beardsley Ave., Elkhart, Ind.
Fire-Killer Mfg. Co., 107 N. Franklin St., Syracuse 1, N. Y.
Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.
General Detroit Corp., 110 Mt. Elliott Ave., Detroit 7, Mich. (Eastern United States.)
General Pacific Corp., 8749 Washington Blvd., Culver City, Calif.
Heet Div. of Demert & Dougherty Inc., 3001 W. 47th St., Chicago 32, Ill.
Justrite Mfg. Co., 2061 No. Southport Ave., Chicago 14, Ill.
Kent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich.
Kidd & Co., Inc., Walter, 675 Main St., Belleville 9, N. J.
Lenk Mfg. Co., 30-38 Cummington St., Boston 15, Mass.
Merlite Industries, Inc., 114 E. 32nd St., New York 17, N. Y.
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio.
Power-Pak Products, Inc., 48 Pearl St., Buffalo 2, N. Y. (Combination tire inflator and fire extinguisher.)
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.
Pyrene-C-O-Two, Div. of Fyr-Fyter Co., P. O. Box 750, Newark, N. J.
Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.
Red Comet, Inc., Red Comet Bldg., Littleton, Colo.
Safety Fire Extinguisher Co., 293 7th Ave., New York 1, N. Y.
Safety First Prods. Corp., 175 Saw Mill River Rd., Elmsford, N. Y. (Pressurized.)
Seco Engrg. & Mfg., Inc., 1300 W. Fort St., Detroit 26, Mich.
Snyder & Son, M. L., Inc., 1827 E. York St., Philadelphia 25, Pa.
Stop-Fire, Inc., 125 Ashland Pl., Brooklyn 1, N. Y.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.





EXTRACTORS, Bolt and Screw

Araco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Stud.)
Bonney Forge & Tool Works, 2400 Rockhill Rd., Alliance, Ohio.
C & G Wheel Puller Co., Scio, N. Y. (Stud.)
Chicago-Latrobe, 426 W. Ontario St., Chicago 10, Ill. (Screw.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.
Groove-Rite Tool Co., 40300 Grand River Ave., Farmington, Mich. (Piston screw for Pontiac and Oldsmobile cars.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Keystone Reamer & Tool Co., Millersburg, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin'" (Screw.)
Miller Co., L. B., 394 State St., Stamford, Conn. (Stud.)
New Britain Machine Co., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukee, Wis.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Reps Tool Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Also stud.)
Rinck-McIlwaine, Inc., 18 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Spray Products Corp., 725 Kenilworth Ave., Merchantville 10, N. J.
Titan Tool Co., E. Main St., Fairview, Pa. (Combination stud driver and remover.)
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Screw.)
Whitman & Barnes Div. of United Drill & Tool Corp., 40085 Plymouth Rd., Plymouth, Mich. (Screw.)

DON'T GAMBLE  WITH WHEEL BEARING FAILURE!

CHECK WHEEL BEARINGS ON A CONSISTENT SCHEDULE.
INSPECT AND REPACK  CAREFULLY. REPLACE

(always replace - NEVER RE-USE) OLD OIL SEALS 

WITH NEW  OIL SEALS. MOST LIKELY THE OLD ONES
ARE  BECAUSE THE MAJORITY OF VEHICLE MAKERS
USE 'EM. REMEMBER  NEW  OIL SEALS

KEEP GREASE IN... DIRT OUT... AND MEET
ORIGINAL EQUIPMENT REQUIREMENTS. WITH

 YOU GET SURE PROTECTION AGAINST WHEEL
BEARING FAILURE.  ORDER  OIL SEALS
FROM YOUR SUPPLIER  NOW!

CHICAGO RAWHIDE



MANUFACTURING COMPANY


**CHICAGO
RAWHIDE**

REPLACEMENT DIVISION,
Elgin, Illinois

IN CANADA: Chicago Rawhide
Manufacturing Co. of Canada Limited
Hamilton, Ontario, Canada

EXPORT SALES: Geon International
Corporation
Great Neck, New York

World's Largest Manufacturer of Oil Seals for original equipment
... now offers the most complete replacement line!

*Remember ...  ...

always

means

Correct Replacement

"From every angle they fill the bill!"

Why **YELLOW
TRANSIT** *specified ASF
Safety 5th Wheels*



One of the recently purchased fleet of 210 turbodiesel-powered tractors—hauling a new 35-foot trailer. This up-to-the-minute Yellow Transit equipment is now operating on an 8,435-mile route, serving eight states between the Great Lakes and the Gulf of Mexico.

William R. Riley, Superintendent of Maintenance for Yellow Transit Freight Lines, Inc., writes why ASF Safety 5th Wheels were chosen for Yellow Transit's entire fleet of new tractors.



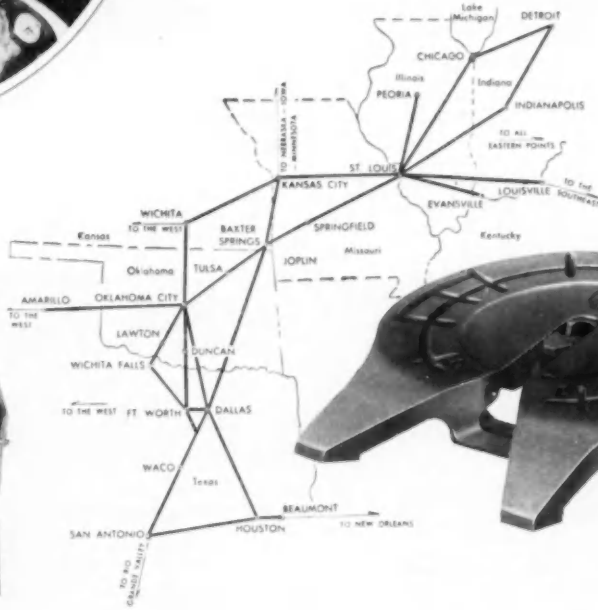
Anyone at Yellow Transit would agree that the *first* consideration in choosing a 5th wheel is *safety*. But, beyond that are vital questions of dollars and cents . . . ease of maintenance . . . payload as opposed to gross weight . . . dependable operation. According to William R. Riley, Superintendent of Maintenance:

"We recently purchased a fleet of 210 new tractors—and in planning this purchase, almost every department in the company was consulted.

"When it came to choosing a 5th wheel we wanted one that the driver would like; that was easy to maintain and on which we could expect good service; and that was low in operating cost and light in weight.

"We thought you would be interested in our reasons for specifying ASF Safety 5th Wheels for the entire fleet. The choice was based on careful consideration of all factors, and our experience to date indicates that from every angle they fill the bill."

You bet we are interested in the reasons, Mr. Riley! Those reasons show that regardless of whether a man's first concern is operating profit . . . or low-cost maintenance . . . or safe over-the-road performance . . . *there's just one first choice in a 5th wheel*. One trial will prove it! See your nearest ASF Distributor, or write: American Steel Foundries, Hammond Division, Hammond, Indiana.



Make an investment in safety . . . with

ASF
safety 5th wheels

extractors to fenders

CCJ'S PRODUCT DIRECTORY

EXTRACTORS, Bolt—continued

Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo. (Stud.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. (Stud.)
Wilson, Inc., K. R., 215 Main St., Arcade, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. (Stud.)
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Stud.)

EXTRACTORS, Bushing

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Atmors Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.
Beard Tool Co., L. O., Andrew & Friel Sts., Lancaster, Pa.
Cornwall Quality Tools Co., Mogadore, Ohio.
Crozier Machine Tool Co., 684 N. Prairie Ave., Hawthorne, Calif.
Dixie-Jibo Co., 2004 Mullenphy St., St. Louis 6, Mo.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Greb Co., 181 Canton St., Stoughton, Mass.
Ideal Mfg. Co., 2649 N. Kildare St., Chicago, Ill.
Kent Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Owantonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo. (Camshaft.)
Ullmo Tool Co., 2515 Superior St., Cleveland, Ohio.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Horn.)

FABRICS, Coated Cloth, For Curtains, Seat Covers, Tops and Upholstery

Admiral Fabrics Co., 22 E. 21st St., New York 10, N. Y. (Plastic coated.)
Athol Mfg. Co., 71 Chestnut Hill Ave., Athol, Mass. (For curtains and upholstery.)
Blossom Mfg. Co., 915 Broadway, New York 10, N. Y. (For curtains.)
Broekton Stay Co., 24 Essex St., Haverhill, Mass.
Burlington Mills, Inc., Burlington, Wis. (Plastic coated, for kick plates, dash seals, floor covering.)
Carpenter & Co., L. E., 170 N. Main St., Wharton, N. J. "Victrex." (Vinyl; sole distributors, A. J. Auchterlonie & Son, Inc., 668 Pallister Ave., Detroit 2, Mich.)
Columbus Coated Fabrics Corp., 7th & Grant Aves., Columbus 16, Ohio. (For upholstery and trim.)
Connecticut Hard Rubber Corp., 407 East St., New Haven 9, Conn. (Silicon rubber coated Fiberglas.)
Duncan Co., W. H., 319 Broadway, New York 7, N. Y. "Dunotex."
du Pont de Nemours & Co., E. I., Fabrics Div., Fairfield, Conn. ("Teal" Rubberized; "Fibrillite" Vinyl plastic coated for upholstery and trim.)
Duro-Gloss Rubber Co., 30 Lenox St., New Haven, Conn. (Rubber, pyroxylin and synthetic resin coated.)
Federal Leather Co., 681 Main St., Belleville 9, N. J.
Goodall-Sanford, Inc., Reading Div., Reading, Mass. (Upholstery; sole distributor, Goodall Fabrics, Inc., 1430 Broadway, New York 18, N. Y.)
Goodrich Co., Industrial Prods., R. F., 500 S. Main St., Akron 18, Ohio. "Koroseal."
Gordon, B. & Co., 141 West 17th St., New York 11, N. Y.
Haartz Auto Fabric Co., 3 Bridge St., Newton 58, Mass. (For tops and decking.)
Haartz-Mason, Inc., Mechanical Products Div., Watertown 72, Mass. (For truck tarpaulins, engine covers, etc.)
Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.
Interchemical Corp., Cotan Div., 341 Oliver St., Newark 5, N. J.
Jamestown Finishing Products, Inc., 125 Blackstone Ave., Jamestown, N. Y.

Joanna-Western Mills Co., 22nd & Jefferson Sts., Chicago, Ill. (Plastic coated for upholstery trim and seat cover.)
Landers Corp., Buckingham & Blucher Sts., Toledo 1, Ohio. ("Versilan" for upholstery; "Resilan" for seat cover trim, door panels, etc.)
Masland Duralather Co., Amber & Willard Sts., Philadelphia 34, Pa.
Mt. Vernon-Woodberry Mills (Turner Halsey Co., Sales Agent, 40 Worth St., New York, N. Y.)
National Automatic Fibres, Inc., 19925 Hoover Ave., Detroit 5, Mich. (For trimmings.)
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y.
Pantasote Co., 444 Madison Ave., New York 22, N. Y.
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich.
Textileather Corp., 607 Madison Ave., Toledo 3, Ohio. ("Textileather" Pyroxylin coated for upholstery and trim; "Troxex" vinyl coated for upholstery and trim; "Elastic Toxex" vinyl coated knit.)
Turner Halsey Co., 40 Worth St., New York, N. Y.
Tower Co., A. J., 24 Simmons St., Boston 20, Mass.
Twitchell, Inc., E. W., Third & Somerset Sts., Philadelphia 33, Pa. (Plastic coated, for seat covers.)
United States Rubber Co., Coated Fabrics Div., Mishawaka, Ind.
Weymouth Art Leather Co., 180 Penri St., S. Braintree 85, Mass.

FABRICS, Uniform

Reeves Brothers, Inc., 54 Worth St., New York 13, N. Y.
Metcalf Bros. & Co., Inc., 45 E. 17th St., N. Y., N. Y.

FACINGS, Clutch, Asbestos

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa.
Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equipment Sales Div., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Russell Mfg. Co., E. Main St., Middletown, Conn.
Scandinavia Belting Co., 744 Broad St., Newark, N. J.
Thermoid Co., 200 Whitehead St., Trenton 6, N. J.

FACINGS, Clutch, Cork

Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Also cork and rubber and fibre.)

FACINGS, Clutch, Metallic

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equipment Sales Div., Stratford, Conn.
Wellman Co., S. K., 200 Egbert Rd., Bedford, Ohio.

FAN BELTS, See Belts, Fan

FANS, Defrosting and Ventilating

Chemex Corp., 41 Murray St., New York 7, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (For trucks and buses.)
Diehl Mfg. Co., Findermie Plant, 1011 Findermie Ave., Somerville, N. J. (Ventilating for buses.)
Evans Products Co., 13101 Eckler's Rd., Plymouth, Mich.
Lydon-Bricher Mfg. Co., 2500 University Ave., St. Paul 4, Minn. (For buses and trucks.)

Roto-Beam, 1755 N. Keeler St., Chicago 32, Ill.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (Vacuum, defrosting.)

FANS, Exhaust Drying

American Blower Corp., Detroit 32, Mich.
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Buffalo Forge Co., 490 Broadway, Buffalo 4, N. Y.
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
De Bothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Emerson Electric Mfg. Co., 8100 Florissant Ave., Detroit 21, Mich.
Hig Electric Ventilating Co., 2850 Pulaski Rd., Chicago 41, Ill.
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 8, Ind.
Spray Engineering Co., 114 Central St., Somerville 45, Mass.
Standard Electric Mfg. Co., Haddon Ave., West Berlin, N. J.
Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 26, Mass.

FANS, Radiator

De Bothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Eaton Mfg. Co., 739 E. 40th St., Cleveland 10, Ohio.
Evans Products Co., Plymouth, Mich.
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford and Chevrolet cars.)
Schwitzer Corp., 1125 Massachusetts Ave., Indianapolis 7, Ind.
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind.

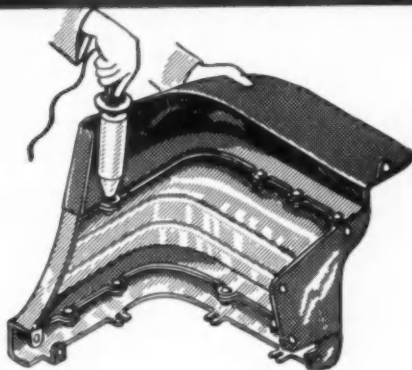
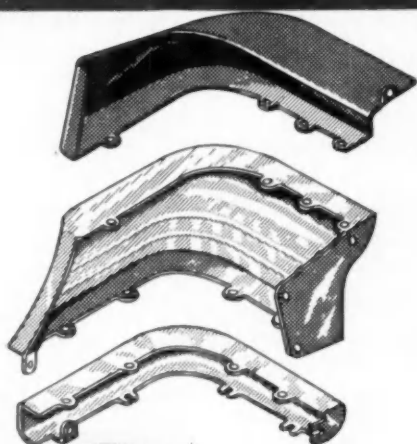
FASTENERS, Sheet Metal

Champ Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Deus Fastener Corp., P. O. Box 185, Babylon, L. I., N. Y.
Lamson & Sessions, 1971 W. 85th St., Cleveland, Ohio.
Palnut Co., 54 Glen Rd., Mountaineer, N. J.
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.
Simmons Fastener Corp., N. Broadway, Albany, N. Y.
South Chester Corp., 228 Industrial Highway, Lester, Pa.
Steck Mfg. Co., 1312 Bolander Ave., Dayton 8, Ohio. (For fenders.)
Tinnerman Products, Inc., 8700 Brookpark Rd., Cleveland, Ohio.
United-Carr Fastener Corp., 31 Ames St., Cambridge 42, Mass.

FELT, INSULATING, See Insulation, Felt, Hair, Paper, etc.

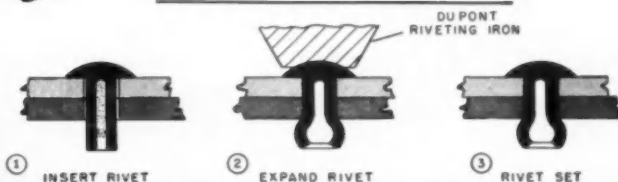
FENDERS

Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.
Bath Co., Cyril, Metal Form Div., 32280 Aurora Rd., Solon, Ohio.
Binkley Mfg. Co., Warrenton, Mo.
Budd Mfg. Co., Edw. G., Hunting Park Ave. & 25th St., Philadelphia, Pa.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Truck to order.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Cook Metal Wks., 337 S. Campbell Ave., Mishawaka, Ind.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Hart Metal Products Corp., 3333 Hammond Ave., Elkhart, Ind.



3-PIECE GRILLE ASSEMBLY

**BLUEPRINT
FOR SIMPLIFIED
FASTENING**



ASSEMBLE GRILLES 50% FASTER WITH DU PONT INDUSTRIAL RIVETS

Tough fastening becomes quick and easy with Du Pont Industrial Rivets. This 3-piece assembly job's a good example. Here's all it takes:

- A. Simply align the 3 sections.**
- B. Insert Industrial Rivets.**
- C. Apply heated iron to Rivet heads.**

Rivets expand in as little as $\frac{1}{2}$ second (see above sketch). Smooth, barrel-shaped heads form on shop ends, locking parts in position . . . eliminating need for filing, grinding or buffing. Takes only half the usual time.

Imagine—almost any fastening job you can name—and *all* this simple! Most operators set 20 to 25 Rivets a minute in grilles, doors, running boards, fenders and interior panels, with neat, factory-like results

every time. It's strictly a *one-man* operation, as you work *only* from Rivets' head side . . . no bucking bar or special tools required. And you get fastening that can take it. Strong, one-piece Industrial Rivets won't vibrate loose or break off, producing sturdy sections ready for rough roads.

No matter how tough your present

fastening may be—Du Pont Industrial Rivets can save you time and effort. A new, 32-page manual highlights many of the intricate jobs these fasteners are simplifying. For your free copy, contact your jobber or write: E. I. du Pont de Nemours & Co. (Inc.), Explosives Dept., Wilmington 98, Delaware.

DU PONT INDUSTRIAL RIVETS

A Product of Du Pont Explosives Research



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

files to flashers

CCJ'S PRODUCT DIRECTORY

FENDERS—continued

Kirk & Blum Mfg. Co., 3120 Farrer St., Cincinnati 9, Ohio. (Bus.)
Metal Auto Parts Co., 1428 W. Henry St., Indianapolis 7, Ind.
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus. truck and fire engines.)
Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich.
Stolper Steel Products Corp., 300 Tapp St., Menomonee Falls, Wis.
York Corrugating Co., Adams St. & W. Md. R. R., York, Pa. (Truck and trailer.)
Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio.

FIFTH WHEEL. See Wheels, Fifth

FILES, Contact Point

Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rineck-Mellwaine Inc., 16 Hudson St., New York 13, N. Y.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Tacony File & Hardware Co., 7225 Wissinoming St., Philadelphia 35, Pa.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

FILTERS, AIR. See Cleaners, Air

FILTERS, Coolant

American Octanator Corp., 2107 Industrial Trust Bldg., Providence, R. I.
Fram Corp., Providence 16, R. I.
Perry Filter Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.

FILTERS, Diesel Fuel

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Air-Maze Corp., 25099 Miles Rd., Cleveland 28, Ohio.
American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.
Commercial Filters Corp., 2 Main St., Melrose 76, Mass.
DeLuxe Products Corp., 1200 Michigan Blvd., Racine, Wis.
Fram Corp., Providence 16, R. I.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y.
Indiana Commercial Filters Corp., Lebanon, Ind.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Sparkler Mfg. Co., Lake St., Mundelein, Ill.
Truck Accessories Co., 2512 W. Olympic Blvd., Los Angeles 6, Calif.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.

FILTERS, Gasoline

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Autopulse Corp., 218 E. Dowland St., Ludington, Mich.
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo.
Century Gas Equipment Co., 11188 Long Beach Blvd., Lynwood, Calif. (Also LP Gas.)
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.
Fram Corp., Providence 16, R. I.
Hygrade Products, Div. Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
J & S Carburetor Co., 2634 N. Beckley Ave., Dallas 2, Texas.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Sparkler Mfg. Co., Lake St., Mundelein, Ill.
Tillotson Mfg. Co., 761 Berdan St., Toledo 12, Ohio.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

FILTERS, Oil

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.
Bolsor Corp., S. Main St., Cedar Falls, Iowa.
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Champ."
Commercial Filters Corp., 2 Main St., Melrose 76, Mass.
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.
De Luxe Products Corp., 1200 Michigan Blvd., Racine, Wis.
Fram Corp., Providence 16, R. I.
General Filters, Inc., 43800 Grand River Ave., Novi, Mich.
Hastings Mfg. Co., N. Hanover St., Hastings, Neb.
Hilliard Corp., 113 W. 4th St., Elmira, N. Y.
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Indiana Commercial Filters Corp., Lebanon, Ind.
International Refinol Co., 9242 Broadway, Brookfield, Ill.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Nugent & Co., Wm. W., 410 W. Hermitage Ave., Chicago 22, Ill.
Oilpure Refiner Sales Co. (Oil Refiner), 507 Fifth Ave., New York, N. Y.
Pick Mfg. Co., West Bend, Wis.
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Truck Accessories Co., 2512 W. Olympic Blvd., Los Angeles 6, Calif.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.
Wix Corp., 1211 Ozark St., Gastonia, N. C.

FILTERS, Oil Refills

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Bolsor Corp., S. Main St., Cedar Falls, Iowa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Briggs Filtration Co., Automotive Div., River Rd., Washington 16, D. C.

Buffalo Pressed Steel Co., 460 N. Meridian St., Youngstown 9, Ohio.
Campbell Filter & Mfg. Co., Rumford, R. I.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn.
Cyclone Filter Corp., 4401 W. North Ave., Chicago 39, Ill.
De Luxe Products Corp., 1200 Michigan Blvd., Racine, Wis.
Filters, Inc., 30 Sagamore Hill Dr., Port Washington, L. I., N. Y. (Sole distributors, Bowman Products Co., Cleveland 2, Ohio.)
Fram Corp., Providence 16, R. I.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Mac Kenzie Muffler Co., 460 N. Meridian Rd., Youngstown 9, Ohio.
Pick Mfg. Co., West Bend, Wis.
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Refill Filter Co., 541-15 Ave., Newark 3, N. J.
W B G Oil Clarified Co., 139 Cornell St., Kingston, N. Y.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.
Wix Corp., 1211 Ozark St., Gastonia, N. C.

FILTERS, Oil, Transmission

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo, Mich.

FIRE ENGINES. See Trucks, Fire

FITTINGS, TUBE. See Tube Fittings

FLAPS, FENDER. See Guards, Splash

FLARES, Highway Lighting

American Automatic Devices Co., Throop St., Chicago 7, Ill. (Oil burning.)
Anthes Force Oiler Co., Ft. Madison, Iowa. (Oil burning and electric; also fuses.)
Arrow Safety Device Co., Mt. Holly, N. J. (Oil burning; also fuses.)
Bolsor Corp., S. Main St., Cedar Falls, Iowa. (Oil burning; also fuses.)
Busch & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill. (Plugs into cigar lighter.)
Carpenter Mfg. Co., Sidney & Erie Sts., Cambridge, Mass. (Electric and electric flasher type.)
Delbar Products, Inc., 7th & Spruce Sts., Parkersburg, Pa.
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Oil burning, also fusee type.)
Do-Ray Lamp Co., 1468 S. Michigan Ave., Chicago 5, Ill. (Electric and kerosene.)
Emarco Corp., Far Hills Station, Dayton 9, Ohio.
Gen-A-Matic Corp., 14741 Beneser St., Van Nuys, Calif. (Electric flasher type.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Oil burning.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Oil burning and electric; also fuses.)
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Kilgore, Inc., Westerville, Ohio.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Signal-Stat Corp., 523-539 Kent Ave., Brooklyn 11, N. Y.
Standard Railway Fusee Corp., Signal Flare Div., Box 30-C, Needham Heights 94, Mass. (Fusee.)
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Oil burning; also fuses.)
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 21, Pa. (Electric.)
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Oil burning.)

FLARING TOOLS. See Tools, Tube Flaring

FLASHERS, Directional Signal

Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2309 S. Indiana Ave., Chicago 9, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.

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You save in many ways when you run your trucks on Philgas*. In most areas, Philgas costs less than gasoline or diesel fuel, so fuel costs are less. Clean-burning Philgas practically eliminates all fouling engine deposits . . . reduces wear on engine parts, bearings, pistons and cylinder walls. There is no oil dilution with Philgas . . . and no smelly fumes. If you are interested in saving money, write for the new booklet on the advantages of Philgas, the 100 octane plus motor fuel.



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AMARILLO, TEX. — First Nat'l Bank Bldg.
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HOUSTON, TEX. — 1020 E. Holcombe Blvd.
INDIANAPOLIS, IND. — 1112 N. Pennsylvania St.
KANSAS CITY, MO. — 500 West 39th St.
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NEW YORK, N. Y. — 80 Broadway
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SALT LAKE CITY, UTAH — 68 South Main
ST. LOUIS, MO. — 4251 Lindell Blvd.
TAMPA, FLA. — 3737 Neptune St.
TULSA, OKLA. — 1708 Ulrica Square
WICHITA, KAN. — 501 KFH Building

flooring to fuses

CCJ'S PRODUCT DIRECTORY

FLASHERS—continued

Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Signal-Stat Corp., Signal-Stat Bldg., 523-539
Kent Ave., Brooklyn 11, N. Y. (Emer-
gency, for disability parking.)
Sparton Automotive Div. of Sparks-Withington
Co., Jackson, Mich.
Trippe Mfg. Co., 218 N. Jefferson St., Chicago
6, Ill.
Tung-Sol Electric, Inc., 95 8th Ave., Newark
4, N. J.

FLEET RECORDS, See Forms

FLEXIBLE SHAFTING, See Shafting, Flexible
FLOOR COVERINGS, See Covering, Floor
FLOOR RESURFACERS, See Resurfacers,
Floor

FLOORING, Truck and Trailer

Aluminum Co. of America, 1501 Alcoa Bldg.,
Pittsburgh 19, Pa. (Aluminum.)
American Abrasive Metals Co., 460 Coit St.,
Irvington 11, N. J.
Consolidated Water Power & Paper Co., Abba-
wam Div., P. O. Box 50, Wisconsin
Rapids, Wis. (Plastic.)
Gramm Trailer Corp., 425 E. O'Connor Ave.,
Lima, Ohio.
Great Lakes Steel Corp., Ecorse, Detroit 29,
Mich. (Steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago
3, Ill. (Steel.)
Jones & Laughlin Steel Corp., 3 Gateway
Center, Pittsburgh 30, Pa. (Steel.)
Polson Rubber Co., Garrettsville, Ohio
(Bus.)
Revere Copper & Brass, Inc., 230 Park Ave.,
New York 17, N. Y. (Aluminum.)
Reynolds Metals Co., Third & Grace Sts., Rich-
mond 19, Va.

FLUID, Hydraulic Brake and Shock Absorber

Allure Corp., 928 Allen Ave., Glendale 1, Calif.
Barton Products Co., 2765 St. Mary's Court,
Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bowen "Seal Fast" Corp., 228 N. Pine St.,
Indianapolis 7, Ind. (Brake.)
Carbide & Carbon Chemical Co. (A Div. of
Union Carbide & Carbon Corp.), 30 E.
42nd St., New York, N. Y. (Brake.)
Castorol Products Inc., 145 Alexander St.,
Yonkers, N. Y. (Brake.)
Chicago Hydraulic Oil Co., 371 E. 116 St.,
Chicago 28, Ill.
Drew & Co., E. F. (Automotive Chemicals
Div.), 15 E. 26th St., New York, N. Y.
du Pont de Nemours & Co., Finishers Div.
Specialties Sales, Wilmington 98, Del.
Eis Automotive Corp., Middletown, Conn.
(Brake.)
Fidelity Mfg. Co., Front & Bridge Sts., Cata-
saugua, Pa. (Brake.)
Gold Eagle Products Co., 1050 W. Kinzie St.,
Chicago 22, Ill.
Hollingshead Corp., R. M., 840 Cooper St.,
Camden, N. J. (Brake.)
International Metal Polish Co., 1910 Quill St.,
Indianapolis, Ind.
Johns Manville Dutch Brand Div., 7800 Wood-
lawn Ave., Chicago 19, Ill.
Loemann Products, Moore & Division Sts.,
Salisbury, Md. (Brake.)
Master Co., 37 Preston Ct., Brooklyn 34, N. Y.
Morrine Products Div., General Motors Corp.,
1420 Wisconsin Blvd., Dayton, Ohio. "Del-
co." (Brake.)
Motor Kool Products Co., 505 Buttes Ave.,
Columbus 8, Ohio. "M-K." (Brake.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave.,
Chicago 30, Ill. (Brake.)
Octagon Process Inc., 15 Bank St., Staten
Island 1, N. Y.
Olin Mathieson Chemical Corp., Industrial
Chemical Div., Mathieson Bldg., Baltimore
3, Md.
Park Chemical Co., Military & Vancouver
Aves., Detroit 4, Mich.
Penetone Co., 74 Hudson Ave., Tenney, N. J.
(Brake.)
Permatex Co., 300 Broadway Huntington Sta-
tion New York N. Y.
Petroleum Chemicals Co., Tilton Rd., Danville,
Ill.
Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn
8, N. Y.

Radiator Specialty Co., 1400 W. Ind. Blvd.,
Charlotte 1, N. C. (Brake.)
Shell Oil Co., 50 W. 50th St., New York 20,
N. Y.
Sinclair Refining Co., 600 Fifth Ave., New
York, N. Y. (Brake.)
Speco, Inc., 7308 Associate Ave., Cleveland 9,
Ohio.
Stanley Co., John T., 642 W. 30th St., New
York, N. Y.
Supco Div. of Lisle Corp., 805 E. Main St.,
Clarinda, Iowa.
Thermoid Co., 200 Whitehead Rd., Trenton 6,
N. J. (Brake.)
Tumbler Laboratories, J. A., 423 S. Hanover
St., Baltimore 1, Md.
U. S. Chemical & Supply Co., 918 E. Fifth St.,
Kansas City 6, Mo.
United Motor Service, United States Aviax
Co., 1350 Maple St., Niles, Mich. (Brake.)
Universal Chemical Div. E. M. Hollingshead
Corp., 840 Cooper St., Camden 2, N. J.
V-O Mfg. Co., 13165 Sherman Ave., North
Hollywood, Calif.
Wagner Electric Corp., 6400 Plymouth Ave.,
St. Louis 14, Mo. (Brake.)
Warehouse Distributing Co., 3810 N. 19th St.,
Philadelphia 40, Pa.
Warwick Laboratories Co., 334 Cleveland St.,
Brooklyn 8, N. Y. "Warco."
White & Bagley Co., 100 Foster St., Worcester
8, Mass. (Shock absorbers.)
Wilco Co., 4425 Bandini Blvd., Los Angeles 23,
Calif. (Brake.)

FLUID, Starting, Diesels

California Oil Co., The, Barber, N. J.
Sinclair Refining Co., 630 Fifth Ave., New
York, N. Y.
Starting Fluid Co., P. O. Box 584, Camden 1,
N. J.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23,
Calif. (Also gasoline engines.)

FLUSHERS, Crankcase

Hydro-Air Cleaning Systems, Inc., 11311 Miles
Ave., Cleveland 5, Ohio.

FLUSHERS, Differential & Transmission

Aro Equipment Corp., Bryan, Ohio.
Coil Mfg. Co., 1013 N. Pares Ave., Evansville
11, Ind. (Guns.)
Dutton-Lainson Co., Mfg. Div., Hastings, Neb.
"Rose."
Gray Co., 60 11th Ave., N. E. Minneapolis 15,
Minn. "Graco." (Gear flushers.)
Homestead Valve Mfg. Co. (Hypresure Jenny
Div.), Narrows Run Rd., Coraopolis, Pa.
Oakite Products, Inc., 19 Rector St., New
York, N. Y.
Wilson, Inc., K. R., Arcade, N. Y. (Flushers.)

FLUSHERS, Radiator and Block, Port- able

Aero-Motive Mfg. Co., 1803 Alcott St., Kala-
mazoo 24, Mich. (Guns.)
Choldun Mfg. Corp., 331 East St., New Haven,
Conn. "Pressure Purger."
Homestead Valve Mfg. Co. (Hypresure Jenny
Div.), Narrows Run Rd., Coraopolis, Pa.
(Nozzles.)
Kent-Moore Organization, Inc., 1501 S. Jack-
son St., Jackson, Mich.
Liquid Veneer Corp., 215 E. Ellicott St., Buf-
falo 3, N. Y.
Sodrin Corp., 2748 McGee Trafficway, Kansas
City, Mo. (Guns.)
Trippe Mfg. Co., 218 N. Jefferson St., Chicago
4, Ill.
U. S. Chemical & Supply Co., 918 E. Fifth St.,
Kansas City 6, Mo.

FLUX, WELDING, See Compounds, Welding

FOG LIGHTS, See Lamps, Fog, Head and Spot

FORK LIFT TRUCKS, See Trucks, Lift

FORMS, Fleet Record

Fleet Forms Co., 1410 N. High St., Columbus
16, Ohio.
McBee Co., Athens, Ohio.
Milbain Printing Co., 152 W. 22nd St., New
York 11, N. Y.
Uarco, Inc., 5000 S. California Ave., Chicago
32, Ill.

FOUNTAIN BRUSHES, See Washers, Foun- tain Brushes & Mops

FRAMES, Pressed Steel

Budd Co., 2450 Hunting Park Ave., Philadel-
phia 32, Pa.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Midland Steel Products Co., Detroit Div., 6660
Mt. Elliott Ave., Detroit 11, Mich.
Parish Pressed Steel Co., Robison & Weiser
Sta., Reading, Pa.
Smith Corp., A. O., 27th & Hopkins Sts.,
Milwaukee 1, Wis.

FRAMES, Trailer Door

Andrews Industries, Inc., P. O. 418, St. Louis,
Mo.

FRONT END ALIGNMENT EQUIPMENT, See Gages, Wheel & Axle Aligning

FUELS, Engine

American Liquid Gas Corp., 1109 Santa Fe
Ave., Los Angeles 21, Cal. (LP-Gas.)
American Oil Co., American Bldg., Baltimore,
Md.
Associated Division, Tide Water Associated
Oil Co., 78 New Montgomery St., San
Francisco, Calif.
Atlantic Refining Co., 260 S. Broad St., Phila-
delphia, Pa.
Cities Service Oil Co., 60 Wall Tower, New
York 6, N. Y.
Continental Oil Co., Continental Oil Bldg.,
Fonca City, Okla.
Emeral Mfg. Co., 242 W. 69th St., New York,
N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st
St., New York, N. Y.
Ethyl Corp., New York 17, N. Y. (Diesel
Ignition Improver.)
Gulf Oil Corp., Gulf Building, Pittsburgh, Pa.
Mid Continent Petroleum Corp., Tulsa 2, Okla.
Pennsylvania Refining Co., Butler Savings &
Trust Co., Butler, Pa.
Phillips Petroleum Co., Bartlesville, Okla.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1,
Ill.
Richfield Oil Corp., Richfield Bldg., 555 S.
Flower St., Los Angeles 13, Calif.
Shell Oil Co., Shell Bldg., San Francisco, Calif.
Shell Oil Co., 50 W. 50th St., New York 20,
N. Y.
Sinclair Refining Co., 630 Fifth Ave., New
York 20, N. Y.
Socony Vacuum Oil Co., 26 Broadway, New
York 4, N. Y.
Standard Oil Co. of California, Standard Oil
Bldg., San Francisco, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan
St., Chicago 80, Ill.
Sun Oil Co., Marcus Hook, Pa.
Texas Co., The, 135 E. 42nd St., New York 17,
N. Y.
Tide Water Associated Oil Co., 17 Battery
Place, New York, N. Y.
Union Oil Co. of California, Union Oil Bldg.,
Los Angeles 17, Calif.

FUEL FILTERS, See Filters, Gasoline; also Filters, Diesel, Fuel

FUEL INJECTORS, DIESEL, See Injector Systems, Gasoline and Diesel Engine

FUEL LINES, FLEXIBLE, See Tubing, Oil and Gasoline Line

FUEL PUMP PARTS, See Parts, Fuel Pump

FUEL PUMP TESTERS, See Testers, Fuel Pump

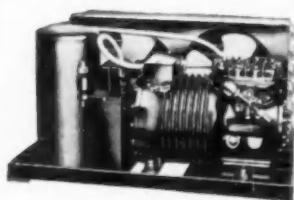
FUEL PUMPS, See Pumps, Fuel

FUSEES, See Flares, Highway Lighting

FUSES, Electric

Acme Air Appliance Co., 100 Hinsdale St.,
Brooklyn 7, N. Y.
Busmann Mfg. Co., 2536 W. University St.,
St. Louis 7, Mo.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza
South, Long Island City 1, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10,
Ohio.
Kilgore Inc., Westerville 1, Ohio.
Kirkman Engineering Corp., 123 Mercer St.,
New York 12, N. Y.
Littlefuse, Inc., 1865 Miner St., Des Plaines,
Ill.
Monarch Electric Corp., 118 E. 1st St., James-
town, N. Y.
Reynolds Mfg. Co., 1805 Alamo National Bldg.,
San Antonio 5, Tex.

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there is
only half
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Choose from $\frac{1}{2}$ to 3 H.P. in Copelametic, the direct-drive accessible hermetic, and economical belt-driven models. Model TR-100 shown.

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Thousands of Copeland units now in use have given years of trouble-free, over-the-road service—proof of superior engineering, ruggedness and dependability.



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Copeland refrigeration does the rest . . . keeps food fresh!

Antiquated methods of food delivery are giving way to refrigerated trucks all along the line . . . for retail, wholesale and house-to-house delivery of perishables. There's a practical reason: Freshness and profit go hand in hand. Now, fleet operators and food processors protect payloads with refrigerated trucks powered by time-proven Copeland units.

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THE IMPROVED TDA[®]

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DRIVING AXLES

will do the job better than ever before!

Years of manufacturing experience—plus continuing field and laboratory research—have resulted in many engineering refinements and advanced features on the improved Timken[®] "3-FOR-1" Letter Series Driving Axles.

With Timken "3-FOR-1" driving axles, housings, axle shafts, differentials, bearings, brakes, hubs and drums—are completely interchangeable within each capacity range, and are standard production items, readily available. This means smaller replacement parts inventory—lower maintenance costs—and more time on the road.

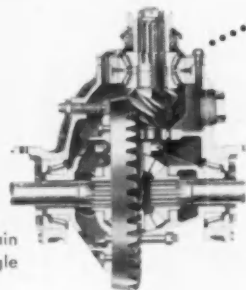
Whether your trucks are engaged in on-the-road or off-the-road delivery and hauling, specify the improved TDA "3-FOR-1" Letter Series Driving Axles for longer operating life—greater flexibility—lower-cost maintenance.

MAXIMUM INTERCHANGEABILITY!

You have your choice of 3 final drives, with each one interchangeable within its Letter Series—using the same housing, hubs, drums, brakes and axle shafts.

HYPOID SINGLE-REDUCTION!

A rugged single-speed power train that gives the maximum in single reduction performance.



Only on the improved Timken "3-for-1" Letter Series Driving Axles will you find these "YEARS AHEAD" features

Improved Hypoid Gears! Redesigned offset and increased Hypoid gear diameter provide longer gear life, smoother performance, and quieter operation—without sacrificing strength or ratio advantages.

Refined two-speed shift collar and cross shaft! Improved design gives positive locking action, virtually eliminates axle slipping out of gear—reduces gear wear and maintenance. Each set of teeth performs but one function—driving or locking.

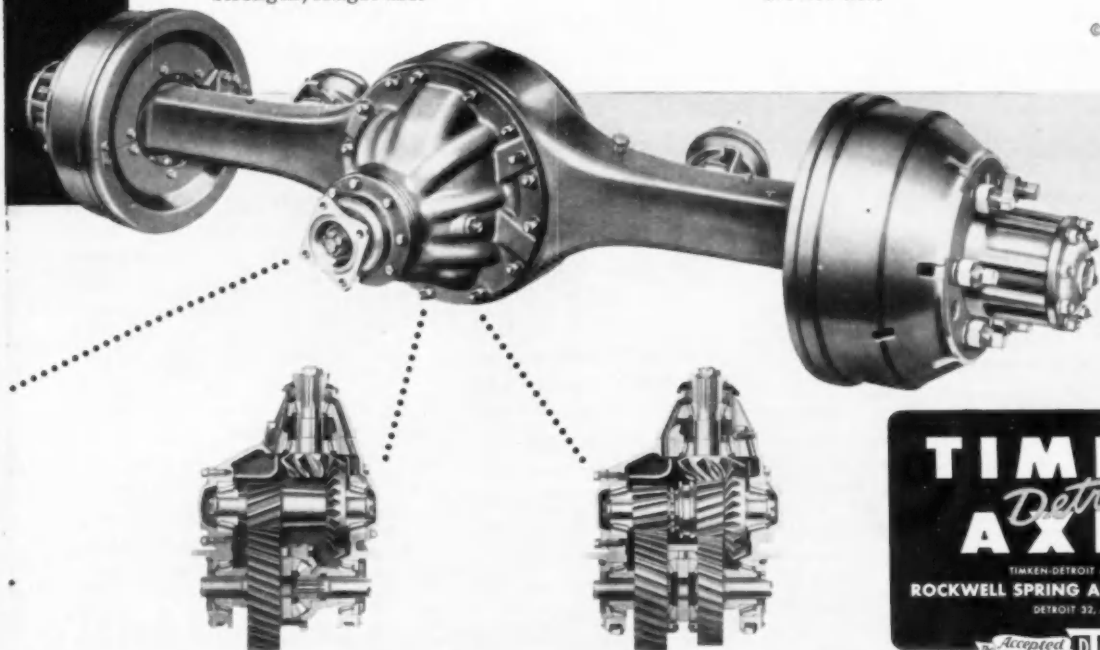
Improved torsion-flow axle shafts—plus new differential gears! More splines per shaft and increased root diameter give greater torsional strength, longer life.

Famous time-proved differential—rugged, reliable and smooth! Extra strong gear body and teeth, plus hot-forged trunnion, give long trouble-free operation even under roughest treatment.

Hot forged steel axle housing! The rectangular form of these high-carbon steel housings is the lightest, strongest shape of housing available today.

Improved "P" Series Power Brakes and "DH" Series Hydraulic Brakes! Available in a complete range of sizes, these advanced brakes offer the most dependable stopping power—lower maintenance cost—easy adjustment and longer service life.

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SINGLE-SPEED HYPOID-HELICAL DOUBLE-REDUCTION!

This advanced single-speed double-reduction final drive delivers consistently high performance either on or off the road.

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This final drive gives you the most advanced two-speed double-reduction gearing available. It's the ideal drive for all-around performance either on or off the road.



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WORLD'S LARGEST MANUFACTURER OF AXLES FOR TRUCKS, BUSES AND TRAILERS

FUSES—continued

Royal Electric Co., 95 Grand Ave., Pawtucket, R. I.
Sightmaster Corp., 111 Cedar St., New Rochelle, N. Y.
Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wis.
Ware Fuse Corp., 4406 W. Lake St., Chicago, Ill.

GAGES, Brake Drum

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
C. & G. Wheel Puller Co., Scio, N. Y.
Grigg Specialty Tools, 8103 Marbrisse Ave., Huntington Park, Calif.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Shepard-Thomson Co., 2023 W. Gage Ave., Los Angeles 47, Calif.
Van Norman Automotive Equipment Co., 3640 Main St., Springfield 7, Mass.

GAGES, Brake Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. "Barrett Brake Doktor."
C. & G. Wheel Puller Co., Scio, N. Y.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.
Shepard-Thomson Co., 2023 W. Gage Ave., Los Angeles 47, Calif.
Wilson, Inc., K. R., Arcade, N. Y.

GAGES, Cylinder

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic brake.)
Chicago Dial Indicator Co., 180 N. Wacker Dr., Chicago 6, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. "Centromatic." (Sole distributors. Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.)
Standard Gage Co., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co. of America, 10641 Haggerty Ave., Dearborn 1, Mich.

GAGES, Cylinder, Compression

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa. (Diesel engine.)
Electric Auto-Lite Co., Instrument Div., La Crosse, Wis.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Fisher Products Corp., A. R., 21-21 44th Drive, Long Island City 1, N. Y.
Gale-Hall Engrs., North Hampton, N. H.
G. M. Co Mfg., Inc., 12-08 43rd Ave., Long Island City, N. Y.
Griswold Mfg. Co., F. T., Lancaster Pike, Wayne, Pa. (Leak tester.)
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Mack Products Co., 15 Putnam St., Winthrop, Mass.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.

Republic Gage Co., 2220 Fenkell Ave., Detroit 21, Mich.
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.

GAGES, Dial

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Boice Mfg. Co., Staatsburg, N. Y. (Snap and bore.)
Bristol Co., Waterbury 20, Conn.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Dow Mechanical Corp., Thompsonville, Calif.
Federal-Mogul Service, Detroit 13, Mich.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Indicator.)
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 24, Mich. (Snap.)
Nilsson Gage Co., 255 Mansion St., Poughkeepsie, N. Y.
Rimat Gage Co., 21 W. Dayton St., Pasadena 2, Calif. (Bore.)
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.
Standard Gage Co., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.

GAGES, Engine Vacuum

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Gale-Hall Engineering, Inc., North Hampton, N. H.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Monroe Standard Inc., Wyandot Bldg., Galion, Ohio. "Sure-Vac." (Brake, mounted on trucks & buses.)
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Petroleum Solvents Corp., 831 Madison Ave., New York 17, N. Y.
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Syracuse Gage Mfg. Corp., Manlius, N. Y.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Wallace & Tiernan Inc., 25 Main St., Belleville 9, N. J.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.

GAGES Gasoline, Dash Type

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.

King-Seely Corp., 315 S. First St., Ann Arbor, Mich.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill. (Electric.)
United Motor Service, General Motors Bldg., Detroit 2, Mich.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa. (Electric.)

GAGES Gasoline, Tank Type

Boston Auto Gage Co., 70 West St., Pittsfield, Mass.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
United Motor Service, General Motors Bldg., Detroit 2, Mich.

GAGES, Liquid Level, Storage Tank

Bristol Co., Instrument Div., 117 Bristol Rd., Waterbury, Conn.
Liquidometer Corp., 39-20 Skillman Ave., L. I. City, N. Y.
Scully Signal Co., 84 First St., Cambridge, Mass.
Tokheim Co., 119 C Ave., N.W., Cedar Rapids, Ia.
Uehling Instrument Co., 473 Getty Ave., Paterson 3, N. J.

GAGES, Oil Level

Bristol Co., Waterbury 20, Conn.
Electric Auto-Lite Co., Instrument Div., La Crosse, Wis.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago 14, Ill.
Trico Fuse Mfg. Co., 2948 N. 5th St., Milwaukee 12, Wis.

GAGES, Oil Pressure

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical and electric.)
Bristol Co., Waterbury 20, Conn.
Dunn Mfg. Co., 117 15th St., Clarinda, Iowa.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
King-Seely Corp., 315 S. First St., Ann Arbor, Mich.
Murphy Mfr. Inc., Frank W., 5428 E. Admiral Pl., Tulsa, Okla. (With safety switch.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Schwarze Electric Co., Church St. at Payne Ave., Adams, Mich.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

GAGES, Thickness or Feeler

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Arco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N. Alliance, Ohio.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Cental Tool Co., 456 Wellington Ave., Cranston 10, R. I.
Cornwell Quality Tools Co., Mogadore, Ohio.
D'Nemart Inc., 100 Maple St., Ashburnham, Mass.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Dial indicator.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Houser Engrs. & Mfg. Co., 230 E. Spring St., Bluffton, Ind.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Klopp Engrs. Inc., 35551 Schoolcraft St., Levonia, Mich.
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 25, Mich.

DALLAS *Again Specifies*

VICKERS®

**HYDRAULIC POWER
STEERING**



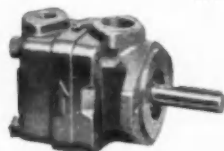
30 MORE "SOUTHERN COACHES"

Make a total of 125 buses used by
Dallas Railway and Terminal Co. having

VICKERS HYDRAULIC POWER STEERING



Vickers Hydraulic Power Steering Booster does the actual work of steering. All road shock is absorbed by Booster and transmitted to vehicle frame . . . there can be no kick-back at the steering wheel.



Engine-driven Vickers Pump supplies power for steering. Optimum radial and axial running clearances are automatically maintained, resulting in high efficiency and long, trouble-free life.

VICKERS® *hydraulic*
POWER STEERING
is Effortless, Positive and Shockless

WELL PLEASED with the performance of Vickers Hydraulic Power Steering on 55 of their buses already in service in 1953, the Dallas Railway and Terminal Co. specified Vickers on 40 additional buses bought from Southern Coach Manufacturing Co. at that time. This year they have taken delivery on 30 more Southern Coaches . . . again specifying Vickers.

Mr. J. T. Hurry, Superintendent of Equipment for the Dallas property, writes: "The oldest of these jobs have nearly 150,000 miles on them. These Vickers units have given very satisfactory service and to date we have not had to rebuild any of them due to wear."

Vickers Hydraulic Power Steering is durable, dependable, safe, easy . . . takes the fatiguing steering load off the driver and increases his efficiency. The quick maneuverability is especially useful in city traffic. Improved public relations result from the ease with which the driver gets close to the curb for loading. Easily applied to new and existing vehicle designs. Ask for Bulletin M-5106.

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SAN FRANCISCO AREA (Berkeley) • SEATTLE • ST LOUIS • TULSA
WASHINGTON • WORCESTER

IN CANADA: Vickers-Sperry of Canada, Ltd., Toronto

gages to gaskets

CCJ'S PRODUCT DIRECTORY

GAGES, Feeler—continued

Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Nassa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P. & C Hand Forged Tool Co., Box 6926, Milwaukee, Ore.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, 84, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Also feeler stock.)
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa.
Union Tool Co., 48 E. River St., Orange, Mass.
Van Keuren Co., 176 Waltham St., Watertown, Mass.
Wildie Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAGES, Tire Pressure

(See also Meters, Air Tower)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Amesco Inc., 564 W. Randolph St., Chicago 6, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Dill Mfg. Co., 709 E. 82nd St., Cleveland 3, Ohio.
Drugs Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors, Tru-Flate, Inc., 888 92nd Ave., Oakland 3, Calif.)
G.M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 N. Well St., Milwaukee 12, Wis.
Syracuse Gauge Mfg. Corp., Manlius, N. Y.

GAGES, Water Temperature

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical and electric.)
Electric Auto-Lite Co., Instrument Div., La Crosse, Wis.
King-Seely Corp., 315 S. First St., Ann Arbor, Mich.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., Instrument Div., 1826 Diversy Pkwy., Chicago, Ill.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

GAGES, Wheel and Axle Aligning

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif. (Magnetic wheel).
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duby Co., John F., 744 Gallivan Blvd., Dorchester 22, Mass.

Hunter Engrg. Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.
Kent-Moore Organization, 1501 S. Jackson St., Jackson, Mich.
Krumm Mfg. Co., T. F., 5150 Lewis Ave., Toledo 12, Ohio.
Kwik-Ezee, Inc., 17 W. 60th St., New York 23, N. Y.
Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo.
Mesco Products, Crete, Neb.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sweeney Mfg. Co., E. K., 1601 23rd St., Denver, Colo.

GAGES, Wheel & Axle

Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAS, Acetylene

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. (Cylinders.)
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

GAS, Hydrogen

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

GAS, LP. See Fuels, Engine

GAS, Oxygen

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

GASKETS, Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Beaverite Products, Inc., Beaver Falls, N. Y.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 37-39 Murray St., New York 7, N. Y.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Darcoid Co., 145 Sixth Ave., New York 13, N. Y. "Dominion."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.

Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.
Greene, Tweed & Co., North Wales, Pa. "Palmetto."
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia, Pa.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Blvd., Norfolk 5, Va.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan Inc., Packing Div., 61 Willet St., Passaic, N. J.
Rhopoc Inc., 3425 Cleveland St., Skokie, Ill.
Roxers Corp., Goodyear, Conn.
United Packing & Gasket Engr. Corp., 511 Ogden Ave., Cicero 50, Ill.
Vellumoid Co., 54 Rockdale St., Worcester 6, Mass. (Wire woven).
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

GASKETS, Copper-Asbestos

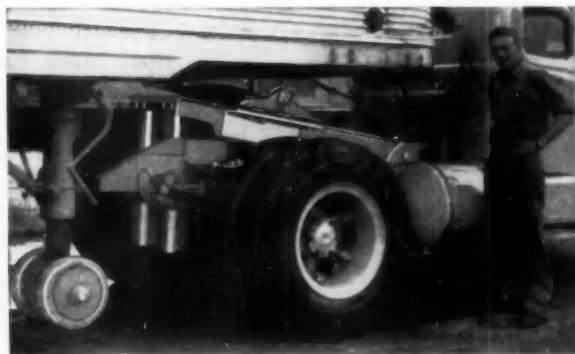
Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
United Packing & Gasket Engr. Corp., 511 Ogden Ave., Cicero 50, Ill.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

GASKETS, Cork

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Composition.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Automotive Products Div., Crotty Corp., 39 E. Chicago Ave., Quincy, Mich.
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.
Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Coyne & Paddock, Inc., 40 09 21st St., Long Island City 1, N. Y.
Crang Co., J. M., 2671 Main St., Buffalo 14, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.
General Cork Co., 1155 Manhattan Ave., Brooklyn 22, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Rd., Norfolk 5, Va.
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J.
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.



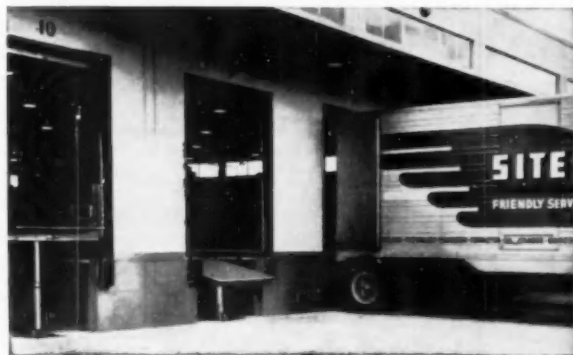
How to cut costs with CEMCO equipment



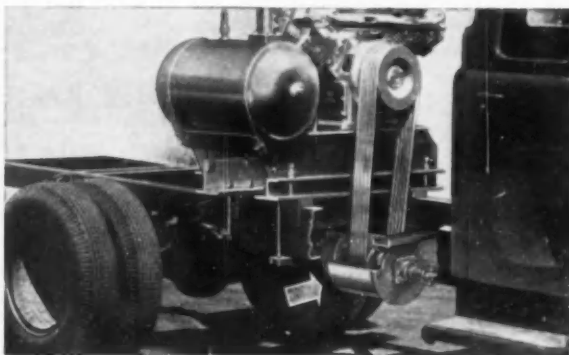
TRAILER JOCKEY—Will lift, according to size, 37,500 lbs. to 65,000 lbs. at kingpin. Puts hydraulic power under your fifth wheel—for speedier spotting of trailer bodies at terminals. Used by most of the nation's leading truckers.



FIFTH WHEEL CRANE—Attaches readily to standard fifth wheel—for lifting front end of disabled tractor or trailer. Permits cross country movement of disabled tractor with only one man. Other uses, too—such as in a repair and maintenance shop.



ADJUSTABLE HEIGHT DOCK RAMP—Handling merchandise on and off of trucks made safer, faster, with adjustable height ramp to compensate for lowering and rising truck floor. Length and width to suit—available in 5 to 10 ton capacities.



SPLIT-SHAFT POWER TAKE-OFF—Utilize your mobile truck power to operate truck-mounted equipment—compressors, welders, drills, etc. Deliver full power of truck motor. No gears—no power loss—no distorting pull. Soon pays for itself!

Modern, labor-saving equipment is a "must" for the forward looking truck and fleet operator. CEMCO equipment has earned money for its users and a firm hold on industry respect for its superior performance. Use the coupon below, or your letterhead, to write for detailed information and prices.

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Also manufacturers of: Mobile Machine Shops, Mobile Lubricating Units, Mobile Trailer-Weigh, Bulk Material Carriers, Hydraulic Tailgates.

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gaskets to gears and pinions

CCJ'S PRODUCT DIRECTORY

GASKETS, Cork—continued

Rhopar Inc., 3425 Cleveland St., Skokie, Ill.
Sutherland Leather & Felt Co., 743 Beaubien St., Detroit 26, Mich.
United Packing & Gasket Engr. Corp., 511 Ogden Ave., Cicero 50, Ill.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

GASKETS, Fibrous and Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Armstrong Cork Co., Industrial Div., Lancaster, Pa. "Accopas."
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Automotive Products Div., Crotty Corp., 35 E. Chicago Ave., Quincy, Mich.
Automotive Research & Mfg. Co., 1085 Iris Pl., Westbury, N. Y.
Beaver Products, Inc., Beaver Falls, N. Y.
Brandywine Fibre Products Co., 15th & Poplar Sts., Wilmington, Del.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 37-39 Murray St., N. Y. 7, N. Y. "Wiaoid."
Continental-Diamond Fibre Div., Budd Co., Newark 10, Del.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Crang Co., J. M., 2671 Main St., Buffalo 14, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Keystone Gasket Mfg. Co., 333 N. Fourth St., Philadelphia 23, Pa.
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
Latex Fiber Industries, Inc., Beaver Falls, N. Y.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Meltrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Merrimac Paper Co., 295 Madison Ave., New York 17, N. Y.
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Rd., Norfolk 5, Va.
Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Presstite Engrg. Co., 3900 Chouteau St., St. Louis 10, Mo.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rogers Corp., Goodwyn, Conn.
Taylor Fibre Co., Norristown, Pa.
Vellumoid Co., 54 Rockdale St., Worcester, Mass.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wilmington Fibre Specialty Co., Newcastle, Del.
Wisconsin Gasket & Mfg. Co., 8724A N. Granville Rd., Granville, Wis.
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

GASKET COMPOUNDS

Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass.

Carborundum Company, Niagara Falls, N. Y.
Dewey & Almy Chemical Co., 62 Whittemore Ave., Cambridge 40, Mass.
Durody Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa.
Flexrock Co., Packing Div., 36th & Filbert Sts., Philadelphia 4, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
P. O. B. Mfg. Co., 3215 Colerain Ave., Cincinnati, Ohio.
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. (In tubes.)
Permatex Co., 1702 Ave. Y, Brooklyn 35, N. Y.
Stanley Co., John T., 642 W. 30th St., New York, N. Y.
Warehouse Distributors Co., 3810 N. 19th St., Philadelphia 40, Pa.

GASOLINE, See Fuels, Engine GASOLINE FILTERS, See Filters, Gasoline

GATES, Truck, Folding

Atlas Fence Co., 3644 Richmond St., Philadelphia 34, Pa.
Bustin Steel Products, Inc., 110 E. 130th St., Dover, N. J.
Gate Co. of America, Detroit, Mich.
Logan Co., Cabell St., Louisville 6, Ky.
Republic Steel Corp., Bolt & Chain Div., 1970 Charter Rd., Cleveland 13, Ohio. (Chain.)
Roll-O-Matic Chain Co., 200 Wyandotte St., Kansas City 6, W. Mo. (Chain.)
Zehr Products Co., 2130 E. Hazzard St., Philadelphia 25, Pa. (Folding wire.)

GEAR PULLERS, See Pullers, Bearing, Gear and Wheel

GEARS, Flywheel Ring

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Lemeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Springfield Mfg. Co., Bechtie Ave. & Columbia St., Springfield, Ohio.
Wohler Corp., 709 E. Grand River Ave., Lansing 5, Mich.

GEARS, Landing, Trailer

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Rinkley Mfr. Co., Warrenton, Mo.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton 1, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Hammer Blow Tool Co., 10940 Harper Ave., Detroit 32, Mich.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Homan & Co., Inc., 511 Reading Rd., Reading, Cincinnati 15, Ohio.

GEARS, Steering, Manual

Gemmer Mfg. Co., 6400 Mt. Elliott Ave., Detroit 11, Mich.
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Hydraulic.)
Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.

GEARS, STEERING POWER, See Steering, Power

GEARS, Timing, Metallic and Non-Metallic

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded in steel hubs, semi-finished.)
Amgears, Inc., Sub. Hupp Corp., 6633 W. 65th St., Chicago 38, Ill.
Bangor Plastics, Inc., Bangor, Mich.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.

Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cloyes Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
Continental-Diamond Fibre Div., Budd Co., Newark 10, Del.
D & B Mfg. Co., 2312 S. Indiana Ave., Chicago, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Electric Auto-Lite Co., Toledo 1, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Metallic.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lemeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemeco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Timing Gears Corp., 2801 Fulton St., Chicago 12, Ill.
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Non-metallic.)
Wolverine Gear & Parts Co., Osseo, Mich.

GEARS, Transmission

Amgears, Inc., Sub. Hupp Corp., 6633 W. 65th St., Chicago 38, Ill.
Automotive Gear Works, Inc., 8th & S. O. Sts., Richmond, Ind.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
Brad Foote Gear Works Inc., 1309 S. Cicero Ave., Cicero 50, Ill.
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lemeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemeco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 10, Ill.
New Process Gear Co., 500 Plum St., Syracuse, N. Y. (Truck and tractor.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

GEARS and PINIONS, Rear Axle

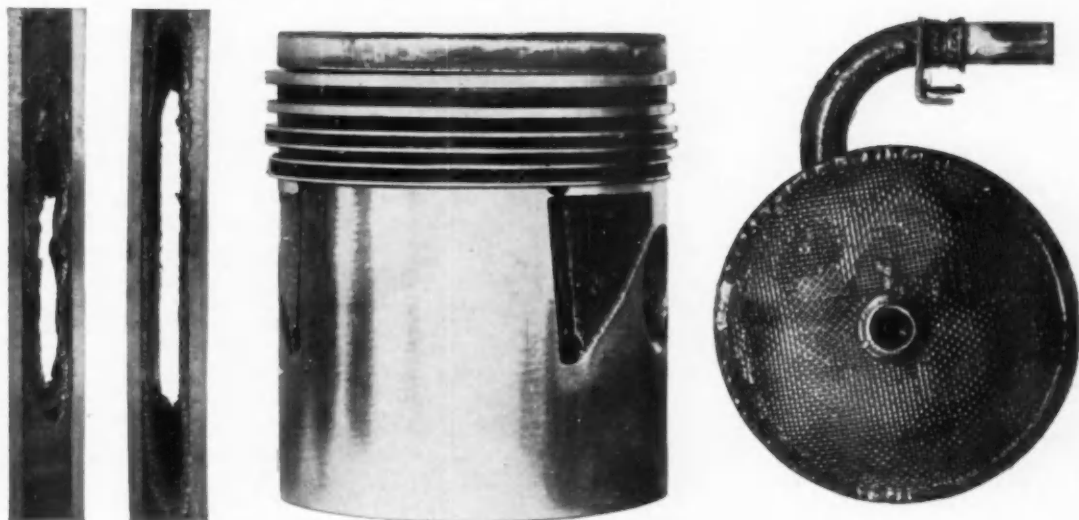
(For complete units—See Differentials)

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.
Lemeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemeco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
New Process Gear Co., 500 Plum St., Syracuse, N. Y.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

Standard Engineer's Field Report

CASE HISTORY
RPM 10-30 Special
LUBRICANT Motor Oil
Yellow Cab Co.,
FIRM Stockton, Calif.

New oil increases oil mileage up to 45%, gas mileage up to 10% for fleet operator



WITH RPM 10-30 SPECIAL MOTOR OIL in their fleet of 32 taxis, the Yellow Cab Co. of Stockton, Calif., was able to boost oil mileage up to 45%, gasoline mileage up to 10% resulting in substantial savings in each vehicle. Oil ring plugging was practically eliminated. Note in photographs above how ring at left (lubricated with conventional heavy duty SAE 30 grade oil) is almost completely clogged after 30,000 miles of service. Ring on right (using "RPM 10-30 Special") is still free and clear, meaning less oil consumption, increased protection against

wear. Clean piston (center) and oil screen (right) show how this new multi-grade oil held deposits to a minimum. A typical unit in the fleet had a daily average of 55% driving, 5% stopped with engine idling, 40% stopped with engine off—and made 25 engine starts.



TRADEMARK "RPM" REG. U. S. PAT. OFF.

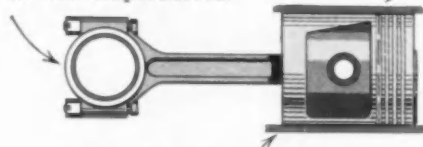
As a result of these savings in oil and gasoline consumption, the company now uses RPM 10-30 Special Motor Oil exclusively in all vehicles.

FOR MORE INFORMATION about this or other petroleum products...or the name of your distributor, write or call any of the companies listed below.

Why RPM 10-30 Special Motor Oil cuts operating costs

Multi-grade insures complete lubrication at all temperatures

Detergent keeps engine parts clean



Anti-oxidant resists deterioration of oil and formation of lacquer

STANDARD OIL COMPANY OF CALIFORNIA, San Francisco 20 • STANDARD OIL COMPANY OF TEXAS, El Paso
THE CALIFORNIA OIL COMPANY, Perth Amboy, New Jersey • THE CALIFORNIA COMPANY, Denver 1, Colorado

gears to grinders

CCJ'S PRODUCT DIRECTORY

GEARS, Worm Drive

Amgears, Inc., Sub. Hupp Corp., 683 W. 65th St., Chicago 35, Ill.
Aro Equipment Corp., Cleveland Drive, 2046 E. 77th St., Cleveland 8, Ohio.
Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Beaver Gear Works, Inc., 1025 Parmele St., Rockford, Ill.
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cleveland Worm & Gear Co., 3274 E. 80th St., Cleveland 4, Ohio.
Eberhardt-Denver Co., 1408 W. Colfax Ave., Denver 4, Colo.
Fairfield Mfg. Co., State Rd. No. 52, Lafayette, Ind.
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
Ohio Forge & Machine Corp., 3010 Woodhill Rd., Cleveland 4, Ohio.
X. L. Gears, Inc., 69 Prospect St., Newark 8, N. J.

GENERATORS

American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.
American Generator & Armature Co., 2614 W. 48th St., Chicago 32, Ill. (Battery charging.)
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuild.)
Delco-Remy, Div. General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio.
General Armature & Mfg. Co., Box 370, Mill Hall, Pa.
Lane & Beane, 2934 Arunah Ave., Baltimore 16, Md. (Auxiliary.)
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio. (Bus and truck.)
United Motor Service, General Motors Bldg., Detroit 2, Mich.

GENERATORS SETS, Portable

Duplex Truck Co., Lansing, Mich.

GLASS, Safety

American Window Glass Co., 1600 Farmers' Bank Bldg., Pittsburgh 22, Pa.
Auto Glass Mfg. Co., 8701 Brinnell Ave., Detroit 13, Mich.
Glass Products, Inc., 9 W. Park Way, Pittsburgh 12, Pa.
Globe Auto Glass Co., 2501 S. Dearborn St., Chicago 16, Ill.
Libbey-Owens-Ford Glass Co., 608 Madison Ave., Toledo 3, Ohio.
Pittsburgh Plate Glass Co., 1 Gateway Center, Pittsburgh 22, Pa.
Protecto Safety Glass Co., 82-04 Cooper Ave., Brooklyn 27, N. Y. (Bullet-resistant.)
Safetee Glass Co., 4717 Stenton Ave., Philadelphia 44, Pa. (Also bullet resisting.)
Shatterproof Glass Co., 4815 Cabot Ave., Detroit 10, Mich.

GOVERNORS, Engine

Electric Auto-Lite Co., Toledo 1, Ohio.
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Hoof Product Co., 6543 S. Laramie Ave., Chicago 35, Ill. (Velocity & mechanical.)
King-Seely Corp., 315 S. Fifth St., Ann Arbor, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Combination governor and distributor.)
Monarch Governor Co., 2800 Tyler Rd., Willow Grove, Mich.
Pierce Governor Co., 1600 Ohio Ave., Anderson, Ind.
Safety Speed Control Co., 7800 N. E. Fourth Court, Miami 38, Fla.
Wilkerson Corp., 1601 W. Girard Ave., Englewood, Colo. (Truck and bus.)
Woodward Governor Co., 5001 N. 2nd St., Rockford, Ill.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Rotor" combination carburetor and governor.)

GRAPHITE, Lubricating

American Grease Stick Co., Muskegon, Mich.
Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich.
Boyle-Midway Inc., 22 E. 40th St., New York, N. Y. "Kant Rust."
Bush & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill.
Dixon Crucible Co., Joseph, Jersey City 3, N. J.
Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohio.
Superior Graphite Co., 1531 First National Bank Bldg., Chicago 3, Ill.
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich.

GREASE, CHASSIS, See Oils and Lubricants
GREASE GUNS, HAND, See Lubricators, Hand
GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE, See Lubricators, Portable, High Pressure
GREASE RETAINERS, See Retainers, Oil and Grease

GRILLES, Radiator

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.
Aluminum Goods Mfg. Co., Manitowoc, Wis.
Automotive Grille Co., 2111 S. Michigan St., Chicago, Ill.
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Detroit Grille Mfg. Co., 258 E. Vernor Highway, Detroit 1, Mich.
Doehler Die-Casting Co., 386 Fourth Ave., New York, N. Y.
Douglas & Lomason Co., 5336 Lincoln Ave., Detroit 8, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Excel Corp., 1120 N. Main St., Elkhart, Ind. (For White trucks.)
Greene Mfg. Co., 1028 Douglas Ave., Racine, Wis.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Motor Products Corp., 11801 Mack Ave., Detroit 14, Mich.
Saginaw Industries Co., 2119 S. Jefferson Ave., Saginaw, Mich. (For Ford and Chevrolet.)
Zenite Metal Corp., 201 N. West St., Indianapolis 7, Ind.

GRILLES, Rolling, for Doorways

Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio.

GRINDERS, Bench

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.
Baldor Electric Co., 4361 Duncan Ave., St. Louis 10, Mo.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Blount Co., J. G., 10 Woodland St., Everett 49, Mass.
Bradford Machine Tool Co., 722 Porter St., Lansing 6, Mich.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Dumore Co., 1300 17th St., Racine, Wis.
Hammond Machinery Builders, Inc., 1621 Douglas Ave., Kalamazoo 54, Mich.
Hisey-Wolf Machine Co., Div. Cincinnati Electrical Tool Co., 2685 Madison Rd., Cincinnati 8, Ohio.
Lima Electric Motor Co., Findlay Rd., Lima, Ohio.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Portable Electric Tools, Inc., 320 W. 83 St., Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.
Prosser & Son, Thomas, Felter Bldg., Tenafly, N. J.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 60F, Mich.
Rockwell Mfg. Co., Delta Power Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.
Schauer Machine Co., 4500 Alpine Ave., Rossmore, Ohio.

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Skill Corp., 5033 Elston Ave., Chicago, Ill.
Speed Way Mfg. Co., 1834 S. 82nd Ave., Cicero 50, Ill.
Standard Electrical Tool Co., Mt. Hope & River Rd., Cincinnati 4, Ohio.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Thor Power Tool Co., 175 State St., Aurora, Ill. "Thor."
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.
Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.
Walker-Turner Div., Kearney & Trecker Corp., 900 North Ave., Plainfield, N. J.
Wickman Mfg. Co., 10325 Capital Ave., Oak Park, Detroit 37, Mich. (Carbide.)
Wilson, Inc., E. R., Arcade, N. Y.
Wisota Mfg. Co., 1301 S. 3rd St., Minneapolis, Minn.

GRINDERS, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Norman Co., 3640 Main St., Springfield 7, Mass.

GRINDERS, Brake Lining and Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Grinders.)
Evans Reamer & Machine Co., New Lexington, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif. (Combination brake lining and brake shoe grinding.)
Wilder Co., M. B., 2024 St. Mary's Ave., Omaha 2, Nebr. "Morris." (Also combination countersinking, riveting and grinding machine.)
Wilson, Inc., K. R., Arcade, N. Y.

GRINDERS, Crankshaft

Evans Reamer & Machine Co., New Lexington, Ohio.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Portable.)
Norton Co., 1 New Bond St., Worcester 6, Mass.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Attachment.)
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Portable.)
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

GRINDERS, Cylinder

Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

GRINDERS, Drill

Black Diamond Saw & Machine Works, 81 North Ave., Natick, Mass.
Consolidated Machine Tool Corp., Winton & Blossom Rd., Rochester 10, N. Y.
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Dumore Co., 1300 17th St., Racine, Wis.
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
La Salle Tool Co., 507 W. Washington St., Chicago 8, Ill. "American."
McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis.
Oliver Instrument Co., 1410 E. Maumee St., Adrian, Mich.

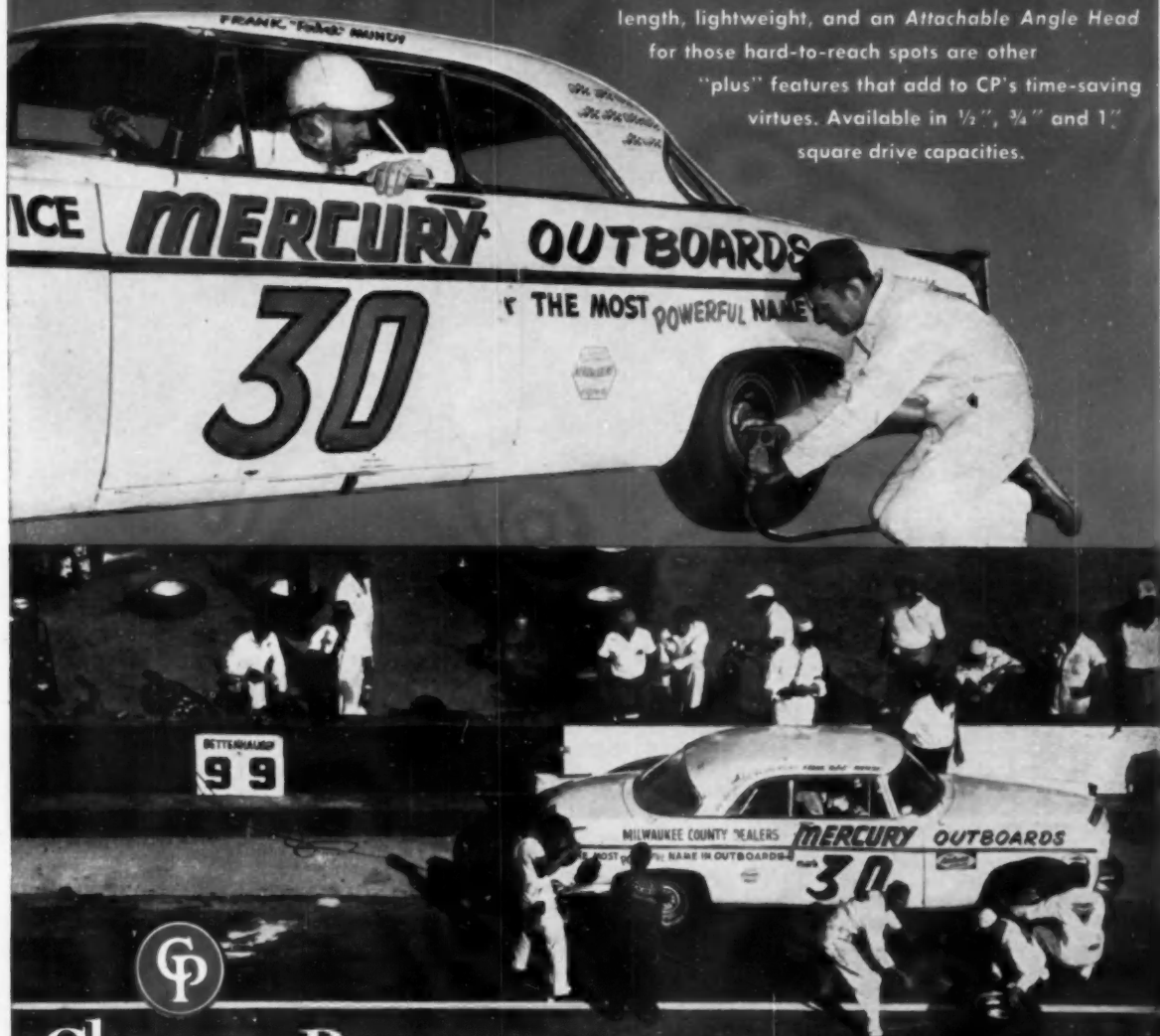
"Saving Seconds is Important... Safety a 'Must'

I get both with
CP Air-Wrenches"

FRANK "BEST" MUNDY,
Veteran Stock Car Driver,
Twice-Winner, AAA Championship Competitions

"Every second saved means money in the bank in the racing business. That's why my pit crew is equipped with CP Air Impact Wrenches. A pair of CP Tork-Kings not only whips off and replaces both outside wheels in a bare 30 seconds but have Controllable Power... their built-in VARI-TORK impact clutch runs wheel lugs to exact, pre-determined tightness for extra safety on the track."

CP Air Impact Wrenches actually reduce nut running and removal time by 75%. And they pack power aplenty — more than enough to remove the most stubborn, rusted nut. Short length, lightweight, and an Attachable Angle Head for those hard-to-reach spots are other "plus" features that add to CP's time-saving virtues. Available in 1/2", 3/4" and 1" square drive capacities.



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8 East 44th Street, New York 17, N. Y.

AIR AND ELECTRIC IMPACT WRENCHES • PNEUMATIC TRUCK JACKS AND PUMPS • ZIP-GUNS • BEAD BREAKERS

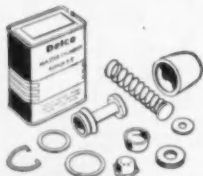
STOP with



DELCO LINED BRAKE SHOES
Made and assembled to original equipment specifications.



WHEEL CYLINDER REPAIR KIT
All parts necessary to put wheel cylinder in normal operating condition.



MASTER CYLINDER REPAIR KIT
All parts needed to put master cylinder in normal operating condition.

Delco Super 11 brake fluid improved with HTD—original equipment in General Motors cars and trucks—is efficient at 50° higher temperatures, improves braking at all temperatures, under all operating conditions. Chemically stable, compatible with the rubber and metal parts in the brake system—and with greater resistance to corrosion and evaporation—Delco Super 11 exceeds all S. A. E. and government specifications for heavy-duty hydraulic brake fluid. Do yourself a favor—order Delco Super 11 improved with HTD today! Packed in convenient containers, from pint cans to 54-gallon drums. Available everywhere through the United Motors System or your General Motors car or truck dealer.

General Motors Values from



Moraine Products

Division of General Motors, Dayton, Ohio

GO

with



MORaine-400 BEARINGS—
toughest automotive engine bearings
ever made.



MORaine BI-METAL BEARINGS—
precision built to original equipment
specifications.



M-100 BEARINGS—
excellent fatigue resistance and longer
life expectancy.

A complete line of Moraine Service bearings for all cars and trucks. The new, complete Moraine bearing line gives you the bearings you need for all bearing replacement jobs—conveniently available from a single source. Remember—Moraine bearings are original equipment in General Motors cars and trucks. So—replace with Moraine in General Motors applications; sell and use Moraine bearings for other bearing replacement jobs. Moraine service bearings are available everywhere through the United Motors System or your General Motors car or truck dealer.



MORaine GAS FILTERS!

Glass-bowl and pancake all-metal types assure dirt free, lint free fuel under all operating conditions.

General Motors Values from



Moraine Products

Division of General Motors, Dayton, Ohio

grinders to hammers

CCJ'S PRODUCT DIRECTORY

GRINDERS—continued

Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Rockwell Mfg. Co., Delta Power Tool Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.

GRINDERS, Engine Head and Block (Advertisers Only)

Lempeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.

GRINDERS, Piston Ring

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Lehman Machine Co., 3560 Chouteau Ave., St. Louis 3, Mo.

GRINDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Dremel Mfg. Co., 3420 18th St., Racine, Wis.
Dumore Co., 1809 17th St., Racine, Wis.
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.
Precise Products Corp., 1328 Clark St., Racine, Wis.
Rotor Tool Co., 23600 Lakeland Ave., Cleveland 22, Ohio.
Stow Mfg. Co., 443 State St., Binghamton, N. Y.

GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Madison-Kipp Corp., 201 Waubesa St., Madison, Wis.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
Onsrud Machine Works, Inc., 3900 Palmer St., Chicago 47, Ill.
Rotor Tool Co., 23600 Lakeland Ave., Cleveland 32, Ohio.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

GRINDERS, Valve Seat, Portable, Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.
Hall-Toledo Div., Baker Bros., 138 Sylvania Ave., Toledo 12, Ohio.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

GUARDS, Bumper

Brown-Lipe-Chapin, Div. General Motors Corp., Town Line Rd., Syracuse, N. Y.

Bumper Guard Co., 277 Washington Ave., Memphis, Tenn.
Campbell Co., A. S., 161 Prescott St., East Boston 25, Mass.
Chadwick, Inc., 7th St. & Keystone Ave., Darby, Pa.
Eaton Mfg. Co., Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio.
Globe Stamping Div., Hupp Corp., 1250 W. 76th St., Cleveland 2, Ohio.
Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.
United Spring & Bumper Co., Div. Rheem Mfg. Co., 4951 Alcoa Ave., Los Angeles 58, Calif.

GUARDS, Radiator, Grille and Fender

American Forging & Socket Co., P. O. Box 123, Pontiac, Mich. (Radiator Grille.)
Bustin Steel Products, Inc., Dover, N. J. (Truck radiator.)
Calco Steel Products Co., 23-29 New England Ave., Boston 24, Mass. (Grille.)
Campbell Co., A. S., 161 Prescott St., East Boston 25, Mass.
Cello Products Co., 161 Prescott St., Boston 24, Mass.
Central Motor Co., 906 Austin Ave., Waco, Tex.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Radiator grille to order.)
Giehner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.
Helms Industrial Development Co., 2730 Scatten St., Detroit, Mich.
Hutchinson Co., 6931 St. Vincents Ave., Shreveport, La.
Knight Co., Geo. C., 19720 W. Eight Mile Rd., Detroit 35, Mich. (Grille.)
Lincoln Metal Products Corp., 179 South St., Newark, N. J. (Radiator.)
Logan Co., Cabel St., Louisville 6, Ky.
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.
Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio. (Truck and tractor.)

GUARDS, Splash

Aeme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 E. Main St., Los Angeles 7, Calif.)
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio.
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Truck; Sole distributors, Monkey Grip Sales Co., 5370 Harry Hines Blvd., Dallas 2, Tex.)
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Bonzer-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Buxbaum Co., 1212 7 St., S.W., Canton 1, Ohio.
Cardinal Rubber Co., Barberton, Ohio.
Cello Products Co., 161 Prescott St., East Boston 25, Mass.
Century Sales Co., 709 Palisades Dr., Akron 3, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Contour Truck Guards, Inc., First National Bank Bldg., 38 S. Dearborn St., Chicago 3, Ill.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.
Doan Mfg. Corp., 1761 London Rd., Cleveland 12, Ohio.
Fargo Rubber Corp., 137 E. 53 St., Los Angeles 11, Calif.
Franklin Industries, Box 44, Acton, Ind.
Gar Wood Industries, Wayne, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Globe Rubber Products Co., 3333 N. Lawrence St., Philadelphia 40, Pa.
Goodrich Co., B. F., Industrial Prods. Div., 500 S. Main St., Akron 18, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.

Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio.
Regal Motor Products, Inc., 6324 Grand River Ave., Detroit 8, Mich.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Tingley Rubber Corp., 903 Ross St., Rahway, N. J.
Velvac, Inc., 3530 W. Pierce St., Milwaukee 18, Wis.

GUARDS, Tire Inflating

Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
Branick Mfg. Co., Fargo, N. D.
K-Z Lift Mfg. Co., Div. Brummeler Steel Products Corp., 1415 Ionia Ave., S. W., Grand Rapids, Mich.
Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.
Kirsop Industries, Inc., Livingston, N. J.
Myers Tire Supply Co., 816 E. Market St., Akron 5, Ohio.

GUIDES, Valve

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Aero Mfg. & Machinery Co., 2724 Ninth St., Muskegon Heights, Mich.
Allied Motor Parts Co., Detroit 1, Mich.
Aluminum Industries, Inc., 2438 Beckman St., Cincinnati 25, Ohio.
American Auto Parts Co., 919 Bonham Ave., Columbus 8, Ohio.
Beckett Bronze Co., 20th & S. Walnut Sts., Muncie, Ind. (Bronze.)
Hurd Piston Ring Co., Div. of Gabriel Co., 1401 23rd Ave., Rockford, Ill.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Rich Mfg. Corp., Battle Creek, Mich.
Sealed Power Corp., 2901 Sanford St., Muskegon Heights, Mich.
Standard Automotive Parts Co., 660 Nims St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wohler Corp., 700 E. Grand River Ave., Lansing 5, Mich.
Wolverine Gear & Parts Co., Osseo, Mich.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

HAMMERS, Pneumatic

Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa.
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Lobdell Div. United Engrs. & Fdry. Co., P. O. Box 1108, Wilmington 99, Del.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio. (Portable.)
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Thor Power Tool Co., 175 State St., Aurora, Ill.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

HAMMERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Hamer-Drill Co., Box 158, Planetarium Station, N. Y., N. Y.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.



● Your N·A·P·A Jobber has the finest and most comprehensive group of automotive replacement parts and supplies ever assembled under one banner, and available to you from a single, friendly and cooperative source of supply.

As part of the nation's largest independent automotive parts organization, with 44 warehouses throughout the country, he has the advantage of *complete* master stocks of these lines within over-night shipping distance, or less.

Your N·A·P·A Jobber is joining with thousands

of others in the nation-wide "Parade of Parts" to dramatize the service and supply advantages which you receive only through the N·A·P·A Jobber. Visit your N·A·P·A Jobber on this occasion, and learn first-hand how he can save you time and *need-less expense* when you concentrate your buying with him. At the same time, get better acquainted with the wide range of nationally advertised parts and supplies he carries for your convenience.

Your N·A·P·A Jobber is a Good Man to KNOW!

National Automotive Parts Association, Detroit, in behalf of the thousands of independent

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who supply the automotive repair trade from coast-to-coast with these—and many other—nationally advertised brands of quality automotive parts and supplies.

hardware to hoists

CCJ'S PRODUCT DIRECTORY

HAMMERS—continued

Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
Thor Power Tool Co., 175 State St., Aurora, Ill.

HARDWARE, Bus

Attwood Brass Works, 303 Douglas St., N.W., Grand Rapids, Mich.
Bath Co., Cyril, Metal Form Div., 32280 Aurora Rd., Solon, Ohio.
Cleveland Hardware & Forging Co., 3270 E. 79th St., Cleveland 4, Ohio.
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Stanchions and grab rails.)
Tompkins, H. S., 82 Dey St., New York 7, N. Y.
Troy Sunshade Co., Troy, Ohio. (Stanchions and grab rails.)
Woodlin Metal Products Co., Marshall, Mich.

HARDWARE, Truck Body

Adams & Westlake Co., 1019 N. Michigan St., Elkhart, Ind. (Auto, truck & bus.)
American Forging & Socket Co., P. O. Box 120, Pontiac, Mich. (Hood locks, etc.)
Attwood Brass Works, Inc., 303 Douglas St., N.W., Grand Rapids, Mich. (Also trailer.)
Attwood Vacuum Machine Co., 1400 Eddy Ave., Rockford, Ill. (Including locks & hinges.)
Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio.
Bessick Co., 437 Howard Ave., Bridgeport 2, Conn.
Binkley Mfg. Co., Warrenton, Mo. (Hinges, brackets, etc.)
Bordner Mfg. Co., 101 S. Louis Ave., Freeport, Ill. (Refrigerator truck.)
Campbell Co., S., 161 Prescott St., East Boston 23, Mass.
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill. (Hood locks.)
Cinch Mfg. Co., 1026 S. Homan St., Chicago 24, Ill.
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill. (Door latches.)
Detroit Harvester Co. Dura Div., 4500 Detroit Ave., Toledo, Ohio.
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Everts Ave., Cleveland 4, Ohio.
Electric Auto-Lite Co., Die Casting Div., 1934 Thomas St., Woodstock, Ill.
Excel Corp., 1120 N. Main St., Elkhart, Ind. (Bus sashes.)
Ferro Stamping Co., 1367 Franklin St., Detroit 7, Mich.
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (Commercial body and bus.)
Harwell Aviation Supply Co., 9035 Venice Blvd., Los Angeles 31, Calif.
Jacob Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Kason Hardware Corp., 71 Wallabout St., Brooklyn 11, N. Y.
Kneuer Tail Board Co., 45 Sea Girt Ave., Manasquan, N. J. (Spaceless tailboard hardware.)
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Miner, Inc., W. H., 209 S. La Salle St., Chicago 4, Ill. (Truck and trailer.)
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill. (Fuel tank fittings.)
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Regal Motor Products Inc., 6325 Grand River Ave., Detroit 8, Mich. (Hinges, visor brackets.)
Rockford Metal Products Co., 716 Cedar St., Rockford, Ill.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces.)
Soss Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Standard-Thomson Corp., Vandalia, Ohio. (Also hearses and ambulances.)
Stanley Works (Pressed Metal Div.), 195 Lake St., New Britain, Conn.

Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.
Tompkins, H. S., 185 Chambers St., New York 7, N. Y.
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Truck body irons, brackets and hinges.)
Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.

HEADLIGHT FOCUSING INSTRUMENTS, See Testers, Headlight

HEATERS, Bus

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md.
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
Evans Products Co., Heating and Ventilating Div., 13101 Eckles Rd., Plymouth, Mich.
Ha Dees Heater Div. of Gabriel Co., 1911 Harrison Ave., Rockford, Ill. (Hot water.)
Hunter Mfg. Co., 30525 Aurora Rd., Salon, Ohio.
Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water.)
Thermo King Corp., 314 W. 90th St., Minneapolis 23, Minn.
Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich.
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill.

HEATERS, Cargo

American Gas Machine Co. Div. of Queen Stove Works, 505 Front St., Albert Lea, Minn. (Automatic bottled gas, for trucks and buses.)
Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md.
Auto Body Works, Pierce Ave. & 8th St., Appleton, Wis. (Exhaust.)
Cargo Guard Inc., Thompson's Point, Portland 2, Me.
Elston Co., Rue R., 2397 University Ave., St. Paul 14, Minn. (I.P. gas.) (Manufactured by Crenlo, Inc., Rochester, Minn.)
Evans Products Co., Heating and Ventilating Div., Plymouth, Mich.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. (Self-powered unit for trailers.)
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Hot water and gasoline.)
Knowles-Fisher Corp., Gowanda, N. Y. (Charcoal burning.)
Laharco Industries, Lyndale & 2nd Ave. N., Minneapolis 3, Minn.
Luminator, Inc., 120 N. Peoria St., Chicago 80, Ill.
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. (Gasoline burning.)
Thermo King Corp., 314 W. 90th St., Minneapolis 23, Minn.
Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich. (Hot water.)
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill.

HEATERS, Engine Pre-Heating

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. (Gasoline burning.)
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Parking lot heater.)
Five Star Mfg. Co., Box 149, Clarksdale, Miss. (Electric.)
General Electric Co., Apparatus Sales Div., 1 River Road, Schenectady 5, N. Y.
Kim Hotstart Mfg. Co., 917 W. Broadway, Spokane 1, Wash. (Electric.)
Laharco Industries, 721 Second Ave. N., Minneapolis 5, Minn.
Perfection Industries, Inc. Div. of Hupp Corp., 1135 Ivanhoe Rd., Cleveland 10, Ohio.
Phillips Mfg. Co., 2816 Aldrich Ave. S., Minneapolis 8, Minn. (Headbolt, hose and dipstick and external tank types.)
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. "South Wind."
Tech Products, Inc., 615 Pennsylvania Ave., Elizabeth, N. J.
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill. (Parking lot heater.)

HEATERS, Paint, Hot Spray

Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Bede Products Corp., Jackson St., Amherst, Ohio.
Devilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Dushhee Inc., 3350 W. 137th St., Cleveland 11, Ohio.
Pol-Flo Paint Sprayer Corp., 1412-16th St., Sacramento, Calif.
Spec-Flo Mfg. Corp., 720 Polk Ave., Houston 2, Tex.
Thermalcup, Inc., 3550 W. 137th St., Cleveland 11, Ohio.

HEATERS, Truck Cab

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md.
Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind. (Hot water.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N.E., Cleveland 14, Ohio. (Hot water.)
Burd Plaston Ring Co., HaDees Heater Div., 10th St. & 23rd Ave., Rockford, Ill. "HaDees." (Hot water.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio. (Hot water.)
Evans Products Co., Heating & Ventilating Div., Plymouth, Mich. (Hot water.)
HaDees Heater Div., Gabriel Co., Rockford, Ill.
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y. (Hot water.)
Hunter Mfg. Co., 30525 Aurora Rd., Salon, Ohio. (Hot water.)
Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water.)
Novi Equipment Co., Novi, Mich. (Hot water.)
Schofield, Inc., E. L., 2230 Seventh Ave., Rockford, Ill. (Hot water.)
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. (Gasoline burning.)
Surface Combustion Corp., Janitrol Aircraft-Automotive Div., 400 Dublin Ave., Columbus, Ohio.
Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich. (Hot water for truck & bus.)

HILL HOLDERS, See Locks, Brake, Hill Holding
HITCHES, TRAILER, See Couplers, Trailer

HOISTS, Chain or Cable

(See also Cranes, Portable)
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y.
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Coffing Hoist Div., Duff Norton Co., 800 Walter St., Danville, Ill.
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
Harrington Co., Gravers Rd. at Turnpike, Plymouth Meeting, Pa.
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
Lincoln Precision Machining Co., North Grafton, Mass.
Manley Div., American Chain & Cable Co., York, Pa.
Mannings, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Ohio Hoist & Mfg. Co., 13111 Shaker St., Cleveland 20, Ohio.
National Screw & Mfg. Co., Chester Hoist Div., Lisbon, Ohio.
Reading Crane & Hoist Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio.
Roeper Crane & Hoist Works, 1220 N. Tenth St., Reading, Pa.
Round & Son, David, Box 883, Cleveland 22, Ohio.
Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa.
Union Mfg. Co., 296 Church St., New Britain, Conn.

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hoists to horns

CCJ'S PRODUCT DIRECTORY

HOISTS—continued

Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Phila. 15, Pa.

HOISTS, Electric

(See also Blocks or Hoists, Chain)

American Engineering Co., 2447 Aramingo Ave., Philadelphia 25, Pa.
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Chisholm-Moore Hoist (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y.
Cleveland Crane & Engineering Co., 5566 E. 253rd St., Wickliffe, Ohio.
Coffing Hoist Div., Duff-Norton Co., 800 Walter St., Danville, Ill.
Conco Engineering Works, Div. of H. D. Conkey & Co., Mendota, Ill.
Detroit Hoist & Machine Co., 8350 Morrow St., Detroit 11, Mich.
Ford Lift, Inc., 204 Sergeant Ave., Clifton, N. J.
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
Harnischfeger Corp., 4409 W. National Ave., Milwaukee 14, Wis.
Harrington Co., Gravers Rd. at Turnpike, Plymouth Meeting, Pa.
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.
Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.
Ohio Hoist & Mfg. Co., 13111 Shaker Sq., Cleveland 20, Ohio.
Reading Crane & Hoist Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio.
Round & Son, David, Box 883, Cleveland 22, Ohio.
Saegens Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.
Stephens-Adams Mfg. Co., 150 Higeway St., Aurora, Ill.
Thomas Hoist Co., 20 S. Hoyne Ave., Chicago 12, Ill.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Phila. 15, Pa.

HOISTS, MONORAIL, See Cranes, Monorail

HOISTS, Pneumatic

Curtis Mfg. Co., Pneumatic Div., 1927 Keinen Ave., St. Louis 20, Mo.
Detroit Hoist & Machine Co., 8350 Morrow St., Detroit 11, Mich.
Holmes Co., Ernest, 2505 E. 48rd St., Chattanooga, Tenn.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Kehawke Mfg. Co., 718 S. Elliot St., Muncie, Ind. (For tire shops.)
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Miller Fluid Power Co., 2040 N. Hawthorne Ave., Melrose Park, Ill.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.
Thor Power Tool Co., 175 State St., Aurora, Ill.

HOISTS, PORTABLE, See Cranes, Portable

HOISTS, Truck Body

Anthony Co., Streator, Ill. (Hydraulic.)
Cemco Industries, Inc., Gallion, Ohio.
Convento Mfg. Co., Cambridge City, Ind.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 65, Calif.
Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.
Detroit Mechanical Hoist Corp., 3502-12 W. Fort St., Detroit 16, Mich.

Flint Tool & Mfg. Co., 407 Hadley St., Holly, Mich.
Gar Wood Industries, Inc., Wayne, Mich. "GW."
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis. (Hydraulic.)
Hercules Galion Products, Inc., Gallion, Ohio.
Ingersoll Kalamazoo Div. Borg-Warner Corp., 1810 N. Pitcher St., Kalamazoo, Mich.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hands.)
Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Hydraulic.)
Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa. (Hydraulic.)
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., S. East St., Gallion, Ohio. (Hydraulic.)
Schwartz Mfg. Co., Lester Prairie, Minn. (Also ramp hoist.)
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.
Wisconsin Hydraulics Inc., 3165 N. 30th St., Milwaukee 16, Wis.

HOISTS, VEHICLE LIFTING, See Lifts, Vehicle

HOLDERS, Air Brake Hose

Edward's Air Hose Bracket Co., P. O. Box 860, Sapulpa, Okla.
Vari-Products Company, 2450 S. Prairie Ave., Chicago 16, Ill.

HOLDERS, Electrode

Chicago Tool & Engrg. Co., 8383 S. Chicago Ave., Chicago, Ill.
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.
Mallory & Co., F. R., 3029 E. Washington St., Indianapolis 6, Ind. (Resistance.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
Tweco Products Co., Boston at Mosley St., Wichita 1, Kan.
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.
W. W. Alloy, Inc. (Div. Fansteel Metallurgical Corp.), 11644 Cloverdale Ave., Detroit 4, Mich.

HOLDERS, LOAD, See Load Binders

HONES, Cylinder

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.)
Barnes Drill Co., 826 Chestnut St., Rockford, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake drum.)
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Ft. Morgan, Colo.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Micromatic Hone Corp., 8100 Schoolcraft Ave., Detroit 38, Mich.
Moline Tool Co., 102 20th St., Moline, Ill. "Hole Hog."
Snap-on Tools Corp., 8046 28th Ave., Kenosha, Wis.
Staple Engrg. Co., 1315 S. Woodward Ave., Birmingham, Mich.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Supco Div., Lisle Corp., 805 E. Main St., Clarinda, Iowa.
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
Van Norman Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.
Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.)
Wilson, Inc., E. R., 215 Main St., Arcade, N. Y.

HONES, Small Bore

(For piston pins, brake cylinders, bushings, etc.)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa. (Brake cylinder, piston pin and ring pin bushings.)
Kent-Moore Organization, Inc., 1561 S. Jackson St., Jackson, Mich. (Piston pin.)
Keystone Reamer & Tool Co., Millersburg, Pa. (Piston pin.)
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Brake cylinder and piston pin.)
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn. (Brake cylinder.)
Precision Hone Co., 8618 Dearborn St., Detroit 17, Mich. (Piston pin, brake cylinder, bushing, etc.)
Resnor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Piston pin.)
Staple Engineering Co., 1315 S. Woodward Ave., Birmingham, Mich.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Piston pin.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

HOOKS, Towing

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Cleveland Hardware & Forging Co., 3206 E. 79th St., Cleveland 4, Ohio.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.

HORN RELAYS, See Relays, Horn and Light

HORNS, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Buell Mfg. Co., 919 W. 49th Pl., Chicago 9, Ill.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Kahlenberg Bros. Co., 1200 Monroe St., Two Rivers, Wis.
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich.
Wagner Electric Corp., 6476 Plymouth Ave., St. Louis 14, Mo.

HORNS, Electric

Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Edwards Co., Norwalk, Conn.
Electric Auto-Lite Co., Toledo 1, Ohio.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Spartan Automotive Div., Sparks-Withington Co., Jackson, Mich.
Yoder Mfg. Co., 1823 E. 17th St., Little Rock, Ark. (Wolf.)

HORNS, Siren

(For ambulances, police and fire department apparatus)

American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
Federal Sign & Signal Corp., 8765 S. State St., Chicago, Ill.
Pyle-National Co., 1334 N. Kastner Ave., Chicago 51, Ill.
Sireno Co., 214 William St., N. Y. 7, N. Y.
Sterling Siren Fire Alarm Co., 8 Bartlett St., Rochester 8, N. Y. (Electric.)

HORNS, Vacuum Operated

Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.
Yoder Mfg. Co., 1823 E. 17th St., Little Rock, Ark. (Wolf, bulb type.)

HORSES and TRESTLES, See Stands, Adjustable

new LONG LIFE PISTON

**Puts
CAST IRON WEAR
IN TOP RING GROOVE**

G and E Wire Insert Piston before machining (left) and after ring grooves are cut (right) showing how the steel wire forms a tough wear-resistant groove. The ferrous plug molded in the head (for diesel pistons) prevents burning through head and lengthens diesel piston life!

G and E WIRE INSERT PISTONS

Patent Pending

- ★ **Low initial cost—
Low cost per mile**
- ★ **Amazing increase
in piston life**
- ★ **Maintains
new engine power
and performance**

Here's an entirely new piston design that combines all the advantages of aluminum alloy pistons with the long life of steel in the top ring groove. No noticeable increase in weight. G and E Wire Insert Pistons are real top performers at LOW COST—barely more than ordinary alloy pistons!

This Gillett & Eaton exclusive steel wire insert cuts top ring groove wear and greatly increases mileage between overhauls.

You get longer piston wear at lower cost because G & E Wire Insert Pistons have a pre-shaped steel wire cast right in the piston wall where the top ring is located. When the grooves are machined, this tough wire is cut, exposing the closely spaced hard surfaced bearing points on top and bottom faces of the groove.

GET THE G AND E WIRE INSERT STORY—Ask your White Machine Works "Arrowhead" representative or write to Gillett & Eaton, Inc.

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ESTABLISHED 1868

HOSE, Air Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
 Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
 Boston Woven Hose & Rubber Co., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
 Crown Products Co., Ralston, Neb.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
 Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
 Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.
 Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
 Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
 Stratatex, Inc., 220 Roberts St., Cut-off, Fort Worth, Tex.
 Thermoid Co., Heavy Duty Div., 200 Whitehead Rd., Trenton 6, N. J.
 Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.
 Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

HOSE, Air, Tire Inflating, Rubber and Fabric

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
 Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. Amco.
 Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
 Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
 Boston Woven Hose & Rubber Co., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
 Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
 Continental Rubber Works, 1946 Liberty St., Erie, Pa.
 Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Tex.
 De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
 Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 8, Ohio.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
 Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
 Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
 Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.
 Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
 Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
 Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.
 Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
 Peters & Russell Inc., 501 W. Liberty St., Springfield 99, Ohio.
 Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
 Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
 Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
 Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Walker Bros., River & End Sts., Conshohocken, Pa.
 Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

HOSE, Gasoline

(See also Tubing, Gasoline & Oil Line)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
 Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
 Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. "Smoothflex." (Synthetic rubber.)
 Boston Woven Hose & Rubber Co., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
 "Bull Dog."
 Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
 Electric Hose & Rubber Co., 12th & Dure Sts., Wilmington, Del.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Goodrich Co., Industrial Prods., B. F., 500 S. Main St., Akron, Ohio.
 Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.
 Metal Hose & Tubing Co., W. Clinton St., Dover, N. J. "National."
 Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
 Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflex."
 Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
 Raybestos-Manhattan, Inc., Manheim, Pa.
 Republic Rubber, Div. of Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.
 Resistoflex Corp., Woodland Rd., Roseland, N. Y.
 Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.
 Thermoid Rubber, Div. of Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
 Titeflex, Inc., 500 Frelinghuysen Ave., Newark 6, N. J.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Grease, High Pressure

Adams Grease Gun Corp., 1051 Atlantic Ave., Brooklyn 18, N. Y.
 Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.
 Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
 Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
 Eastman Mfg. Co., 1440 N. 24th St., Manitowoc, Wis.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
 Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
 Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
 Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Norrgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
 Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
 Reda-Turner Mfg. Co., 311 Page Blvd., Springfield 4, Mass.
 Republic Rubber Div., Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.
 Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
 Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

HOSE, Heater

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
 Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.
 Continental Rubber Works, 1946 Liberty St., Erie, Pa.
 Crown Products Co., P. O. Box 1046, Omaha, Neb.
 Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.

Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
 Hewitt Rubber Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
 Holfast Rubber Co., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
 Miller Rubber Co., Div. B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
 Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
 Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
 Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.

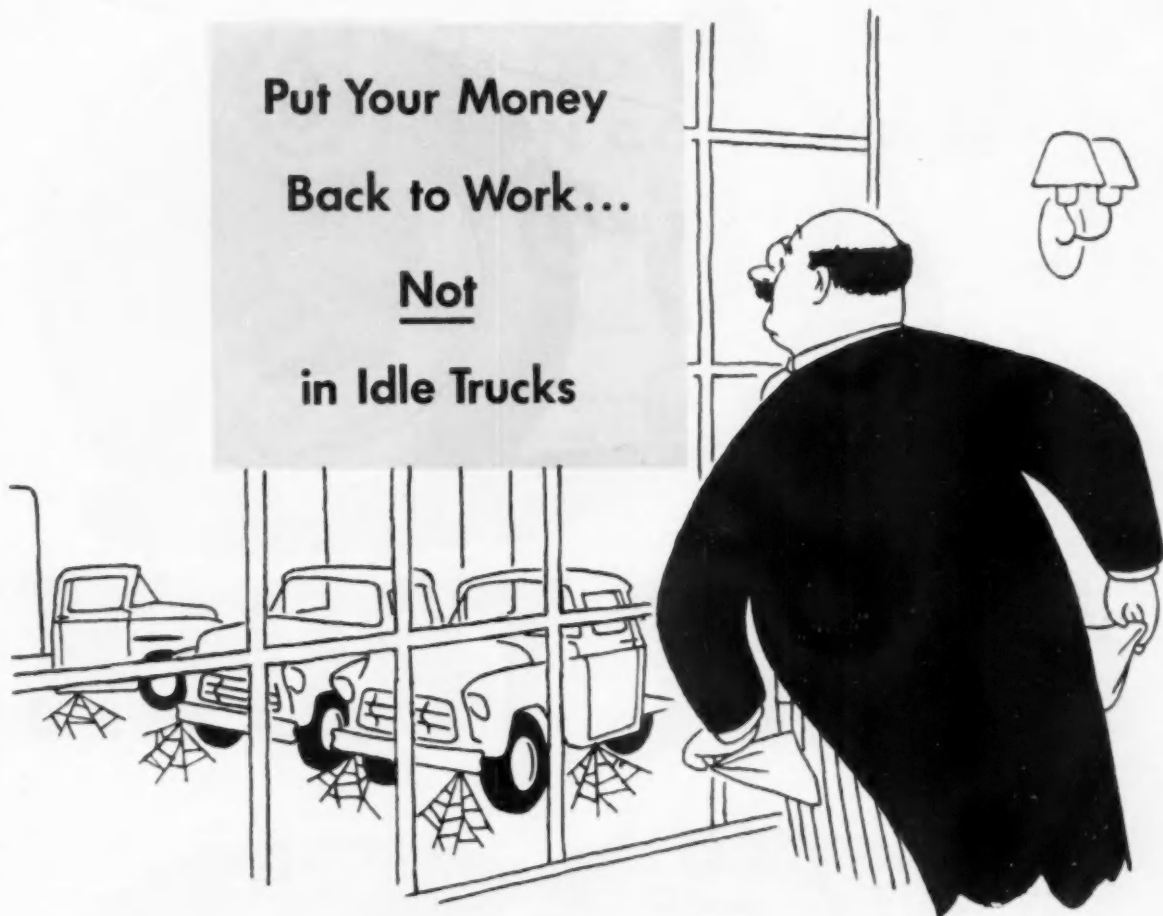
HOSE, Hydraulic Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
 Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
 Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
 Chefford Master Mfg. Co., Fairfield, Ill.
 Eis Automotive Corp., Middletown, Conn.
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
 Exello Accessories Mfrs. Inc., 81 Madison Ave., Hempstead, N. Y.
 Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rex-Weld."
 Goodrich Co., Industrial Prods. Div., B. F., 500 S. Main St., Akron 18, Ohio.
 Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
 Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
 Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
 Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.
 Motor Equipment Mfrs., Inc., 5253 Roosevelt Rd., Chicago 50, Ill.
 Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
 National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
 Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg. 23, Brooklyn 32, N. N.
 Raybestos-Manhattan, Inc., Equip. Sales Div., 75 E. Main St., Stratford, Conn.
 Stratotex, Inc., 220 Roberts St., Cut-Off, Ft. Worth, Texas.
 Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J. (Booster.)
 United Motor Service, General Motors Bldg., Detroit 2, Mich.
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
 Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

HOSE, Radiator

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
 Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
 Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
 Continental Rubber Works, 1946 Liberty St., Erie, Pa.
 Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
 Crown Products Co., Ralston, Neb.
 Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Tex.
 Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.
 Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Bendable.)

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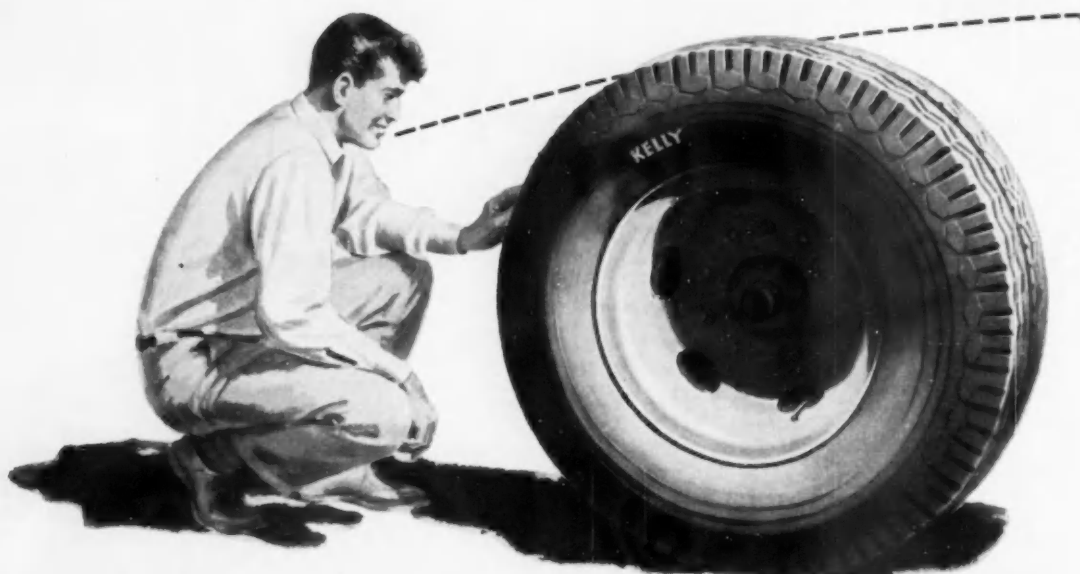
For example, in Minneapolis and St. Paul, Minnesota, the rate for a 12-foot van truck is \$10.00 for 8 hours

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age because Kellys can take more recaps!

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HOSE—continued

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Flexafe, Inc., 321 Park Bldg., Cleveland 14, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Co. Industrial Prods. Div., B. F. 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Johns-Manville, 22 E. 40th St., New York, N. Y.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
Mercer Rubber Co., Hamilton Square, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Roberts Flexible Hose Co., 105 N. Washington Ave., Cedarburg, Wis.
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Vot Rubber Corp., W. J., 2945 E. 12 St., Los Angeles 23, Calif. (Flexible.)

HOSE, Refrigerator

Aerquip Corp., 300 S. East Ave., Jackson, Mich.
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.

HOSE, Vacuum Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
Aerquip Corp., 300 S. East Ave., Jackson, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Boston Woven Hose & Rubber Co., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Haywood Indus., P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Thermoid Co., Heavy Duty Div., 200 Whitehead Rd., Trenton 6, N. Y.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Velvac, Inc., 3533 W. Pierce St., Milwaukee 15, Wis.

HOSE, Welding

(See also Cable, Welding)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)
Aerquip Corp., 300 S. East Ave., Jackson, Mich.
Air Reduction Sales Co., Secony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.

Boston Woven Hose & Rubber Co., Cambridge Mass. (P. O. Box 1071, Boston 3, Mass.)
Burdett Oxygen Co. of Cleveland, Inc., 3399 Lakeside Ave., Cleveland 14, Ohio.
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood, Cincinnati 12, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Co., Industrial Products Div., B. F. 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Haywood Indus., P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. (Oxy-acetylene.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Republic Rubber, Div. of Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HUBS, Wheel

Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
Dittmer Gear & Mfg. Co., 193 Grand St., Lockport, N. Y.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (For truck trailers.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.

HYDRAULIC FLUID, See Fluid, Hydraulic Brake and Shock Absorber

HYDROMETERS, Battery and Coolant

Beck, Oscar, Glass Blowing Co., 4-6 Court House Pl., Newark 2, N. J.
Bishman Mfg. Co., Osseo, Minn. (Hand.)
Chaslyn Co., 1952 Irving Park Rd., Chicago 13, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Frees Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa.
General Scientific Equipment Co., 27th & Huntington Sts., Philadelphia 32, Pa.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kennedy Service Tools Co., P. O. Box 31, Mogadore, Ohio.
Kimble Glass Co., P. O. Box 1035, Toledo 1, Ohio. (Sole distributors, Imperial Glass Mfg. Co., 1200 W. Harrison St., Chicago 7, Ill.)
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa.
Preferred Electric & Wire Co., Bush Terminal Bldg. #5, Brooklyn 32, N. Y.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 6, N. J.
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

IGNITION SPRAY, See Insulation, Electrical Parts, Liquid

IGNITION TOOLS, See Tools, Ignition

CCJ'S PRODUCT DIRECTORY

INDICATORS, Carbon Monoxide

Cambridge Instrument Co., Inc., Grand Central Terminal, New York 17, N. Y.
Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh 8, Pa.

INDICATORS, LOW BRAKE FLUID, See Signals, Low Brake Fluid

INJECTION SYSTEMS, Gasoline & Diesel Engine

American Bosch Div., American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass. (Pumps.)
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave., S.W., Grand Rapids 2, Mich.
Flint Corp., 1323 N. Water St., Milwaukee 2, Wis. (Air and water injectors.)
Hancock Diesel Service Co., 300 Walnut St., Findlay, Ohio. (Diesel reconditioning service.)
Hartford Machine Screw Co., P. O. Box 1440, Hartford 2, Conn. (Roosa-Master.)
Micro-Precision Div., Micromatic Hone Corp., 2205 Lee St., Evanston, Ill. "Demco." (Diesel.)
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sydney, N. Y.
Simmonds Aeroservices, Inc., 105 White Plains Rd., Tarrytown, N. Y. (Gasoline.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

INJECTORS, Water, Gasoline Engine

American Octanator Corp., 2107 Industrial Trust Bldg., Providence, R. I.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Wag Enterprises, 3110 Broadview Rd., Cleveland 9, Ohio.

INSPECTION SYSTEM PARTS

Magnaflux Corp., 5908 Northwest Highway, Chicago 31, Ill. "Magnaflux-Magnaglo."

INSTRUMENTS, Distributor Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Electro Products Co., 446 E. 189th St., New York 58, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Motoride Corp., 2400 Emerald St., Phila. 26, Pa.
Price Instrument Engineering Co., Inc., Newport News, Va. (Manometer.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Wells Mfg. Co., 200 W. Division St., Fond du Lac, Wis.

INSTRUMENTS, Electrical Circuit Testing

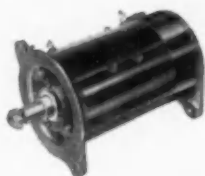
(See also Analyzers, Trouble)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass.
Auto-Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.
Bristol Co., Waterbury 20, Conn.
Crumbliss Mfg. Co., 3539 N. Podlin Dr., Franklin Park, Ill.
Electro Products Co., 4456 E. 189th St., New York 58, N. Y.
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill. (Sole distributors, Wood Specialty Mfg. Co. Sales Div., 919 Taylor Ave., Rockford, Ill.)
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y. "G-E."
Hort Electrical Instrument Works, 42 Carleton St., Cambridge 32, Mass. (Sole distributors, Burton-Rogers Co., 42 Carleton St., Cambridge 42, Mass.)
Ideal Industries, Inc., 1014 Park Ave., Syracuse, Ill.
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill. (For voltage regulators and generators, armatures and field coils.)

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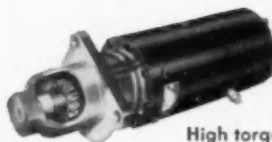
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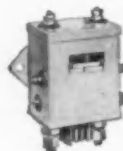


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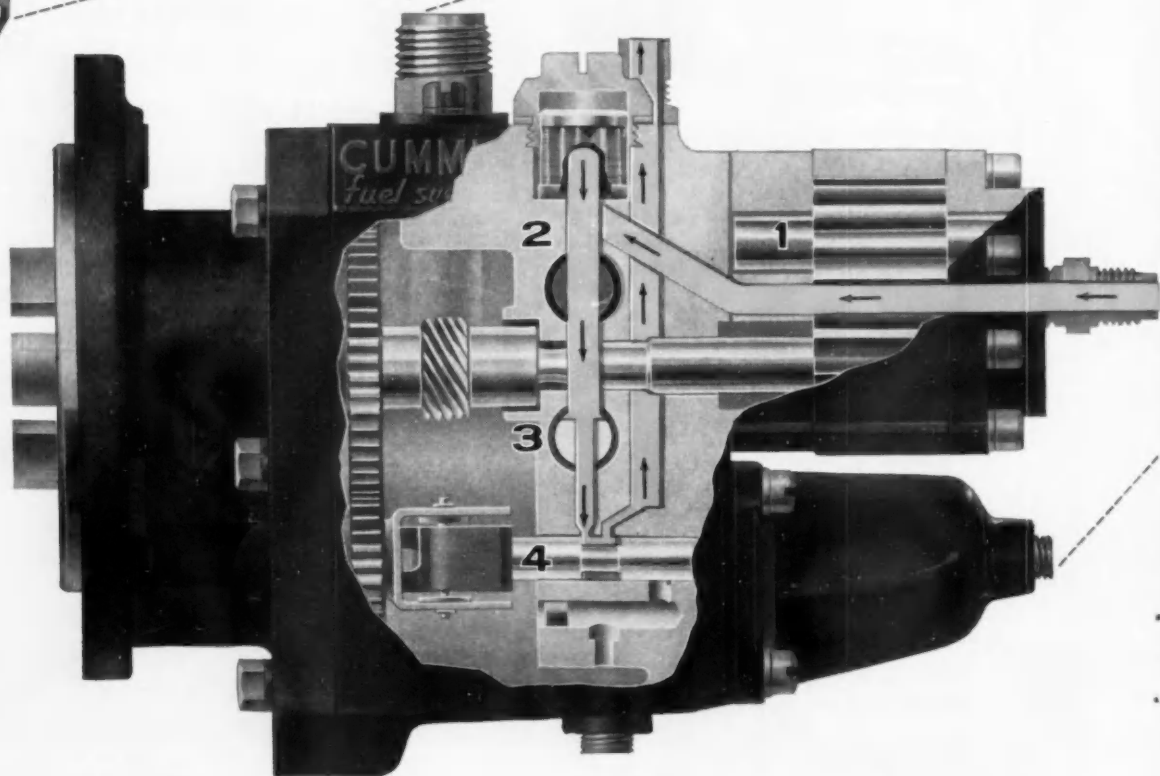


SMALL MOTORS

SIMPLICITY



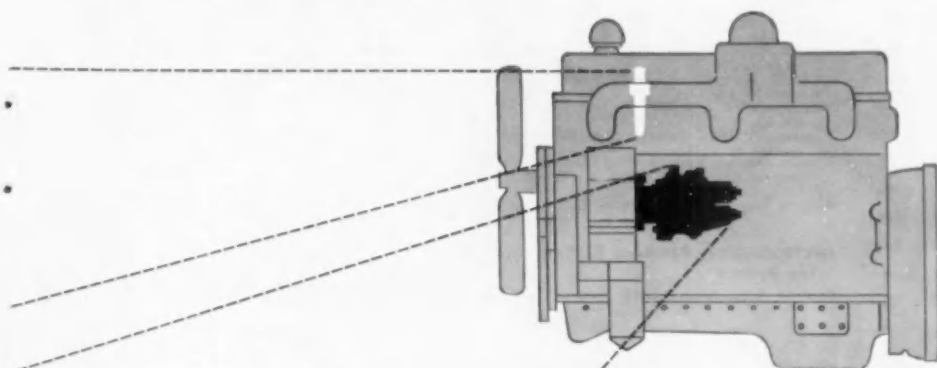
INSIDE THE ENGINE Cummins simple seven-part injector utilizes the Pressure-Time principle of fuel metering. Fuel is delivered from the PT pump under varying low pressures to (A) the fixed-size metering orifice. The engine camshaft establishes and controls the time interval during which (B) the injector plunger, the only moving part in the injector, meters and injects fuel.



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Kennedy Service Tools Co., P. O. Box 88, Mogadore, Ohio.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 8, Ohio.
Machined Parts Corp., 6299 Hamilton Ave., Detroit 2, Mich.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mercury Electric Corp., 719 Wyandotte St., Kansas City, Mo.
Motorairide Corp., 2400 Emerald St., Phila. 25, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 80, Ill.
Practical Devices, Inc., 103 Lafayette St., New York 13, N. Y.
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmore, Ohio.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Silver Beauty."
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 23, Pa.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.
Wilson, Inc., K. R., Arcade, N. Y.
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut." (Armature testers.)

INSTRUMENTS, Engine Testing

Allen Electric & Equip. Co., 2101 N. Pitcher St., Kalamazoo 13, Mich.
Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Electro Products Co., 445 E. 189th St., New York 68, N. Y.
Gale-Hall Engineering, Inc., North Hampton, N. H.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Kent-Moore Organization, 1501 S. Jackson St., Jackson, Mich.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Rineck-McIlwaine, Inc., 16 Hudson St., N. Y. 13, N. Y.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Wilson, Inc., K. R., Arcade, N. Y.

INSTRUMENTS, Battery Testing

(See also Hydrometers)

Associated Equipment Corp., 5147 Natural Bridge, St. Louis 15, Mo.
Auto Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo.
Christie Electric Corp., 3410 W. 67th St., Los Angeles 43, Calif.
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
General Scientific Equip. Co., 27th & Huntingdon Sts., Philadelphia 82, Pa.
Gould-National Batteries, Inc., E-1201 First National Bldg., St. Paul 1, Minn.
Heyer Industries, Inc., 471 Cortlandt St., Belleville, N. J.
Hoyt Electrical Instrument Works, 42 Carleton St., Cambridge 32, Mass. (Sole distributors, Burton-Rogers Co., 42 Carleton St., bridge 42, Mass.)
Jordan Electric Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo.

Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill.
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Triple A Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Tungsten Mfg. Co., 1923 E. 79th St., Chicago 49, Ill.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.
Wilson, Inc., K. R., Arcade, N. Y.

INSTRUMENTS, Pressure Testing, Cooling System

Spotrim Corp., 15301 Mack Ave., Detroit 24, Mich.

INSTRUMENTS, Strain Testing

Magnaflux Corp., 7300 W. Lawrence Ave., Chicago 81, Ill.

INSULATION, Electrical Parts, Liquid

American Latex Products Corp., 3341 W. El Segundo Blvd., Hawthorne, Calif.
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Boruski, Jr., Ernest F., 7104 Alvern St., Los Angeles 45, Calif.
Champion Bronze Powder & Paint Co., Inc., 2526 W. Van Buren St., Chicago 12, Ill.
Champion Cable Co., 1805 E. 40th St., Cleveland 3, Ohio.
Chemical Prods. Corp., King Philip Rd., East Providence, R. I. (Ignition).
Dow Corning Corp., Mialana, Mich.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (For ignition systems.)
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
General Electric Co., Chemical Div., 1 Plastics Ave., Pittsfield, Mass.
Ignition-ite Products Co., P. O. Box 373, Downey, Calif. (For ignition systems.)
Krylon, Inc., Ford & Washington Sts., Norristown, Pa. (For ignition wiring, battery terminals, etc.)
Porter Mfg. & Supply Co., 2836 Sunset Blvd., Los Angeles 26, Calif. (For ignition systems.)
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio. (For ignition systems.)
Radiator Specialty Co., 1400 W. 2nd Blvd., Charlotte 1, N. C. (For ignition systems.)
U. S. Industrial Chemicals Div. of National Distillers Products Corp., 99 Park Ave., New York 16, N. Y. (Sole distributors Heat Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 82, Ill.)
V-O Mfg. Co., 13166 Sherman Way, North Hollywood, Calif. (Ignition.)
Warehouse Distributing Co., 3310 N. 19th St., Philadelphia 40, Pa. (For ignition systems.)
Watts-Wagner Co., 288 Frelinghuysen Ave., Newark 5, N. J. (For ignition systems, etc.)
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.
Zip Abrasive Co., 1360 W. 9th St., Cleveland 13, Ohio. (Ignition system.)

INSULATION, Felt, Hair, Paper, Glass, Fiber, Wool, etc.

American Hair & Felt Co., 1523 Merchandise Mart, Chicago, Ill. (Hair and felt.)
Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Felt paper.)
Arvey Corp., 6401 E. Nevada Ave., Detroit 12, Mich. (Felt.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
Burlington Mills Inc., Burlington, Wis. "Burl-Tex." (Plastic coated trunk lining.)
Continental-Diamond Fibre Div., Budd Co., Newark 10, Del.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DG."
Dow Chemical Co., Midland, Mich. (Expanded polystyrene for trailers.)
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y. (Felt.)

Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del.
General Electric Co., Chemical Div. & Metallurgical Div., Laminating & Insulating Products Dept., Coshocton, Ohio.
Great American Industries, Inc., Rubatex Div., Bedford, Va. (Cellular rubber.)
Gustin-Bacon Mfg. Co., 230 W. 10th St., Kansas City, Mo.
Johns-Manville, 22 E. 40th St., New York 16, N. Y. (Mineral wool.)
Keystone Roofing Mfg. Co., Franklin St. & P. R. R., York, Pa. (Paper.)
LOF Glass Fibers Co., 1810 Madison Ave., Toledo, Ohio. (Glass wool.)
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. "Peerless."
Owens-Corning Fiberglass Corp., National Bank Bldg., Toledo 1, Ohio. (Fibrous glass.)
Pittsburgh Plate Glass Co., Fiber Glass Div., 1 Gateway Center, Pittsburgh 22, Pa. (Fiber glass.)
Richards Mfg. Co., 20 E. Herman St., Phila. 44, Pa. (Fiberglass for under hood.)
Ruberoid Co., 307 N. Michigan Ave., Chicago 1, Ill. (Felt.)
Seaman Products Div. of Seaman Paper Co., 1236 Sherman Ave., Evanston, Ill.
Silvercote Products Inc., 141 E. Erie St., Chicago 11, Ill. (Fiber glass for refrigerator bodies.)
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. (Paper, for motors.)
Taylor Fibre Co., Norristown, Pa.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Plastic foam.)
Western Felt Works, 4021-4139 W. Ogden Ave., Chicago 23, Ill. (Felt.)
Wilmington Fibre Specialty Co., New Castle, Del.
Wilson & Co., 4100 S. Ashland Ave., Chicago, Ill. (Sole distributors, Automotive Materials Corp., Fisher Bldg., Detroit, Mich.)

INSULATORS, Spark Plug

Frenchtown Porcelain Co., 83 Muirhead Ave., Trenton, N. J.
Sealtight Corp., 228 First St., N.E., Cedar Rapids, Iowa.

IRONS, Soldering, Electric

American Electrical Heater Co., Woodward, Cass & Burroughs Aves., Detroit 2, Mich.
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.
General Electric Co., Apparatus (Sales Div.), 1 River Rd., Schenectady 5, N. Y.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Ideal Industries, Inc., 1014 Park Ave., Syracuse, Ill.
Kwikheat Mfg. Co., 3732 San Fernando Bldg., Glendale 4, Calif.
Lent Mfg. Co., 20 Cummington St., Boston 15, Mass.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.
Phillips Mfg. Co., 2816 Aldrich Ave. S., Minneapolis 8, Minn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stanley Tools, 111 Elm St., New Britain, Conn.
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 21, Pa.
Vulcan Electric Co., 88 Holten St., Danvers, Mass.
Wal Mfg. Co., P. O. Box 71, Grove City, Pa.
Wassersleing Mfg. Co., Inc., 7400 3rd Ave., No. St. Petersburg 6, Fla.
Weller Electric Corp., 808 Packer St., Easton, Pa.
Wen Products Inc., 5806 Northwest Hwy., Chicago 31, Ill.

IRONS, Tire Branding

Evershot Mfg. Co., 57 S. 19th St., Maywood, Ill.
Merkert & Sons, 146-10 Jamaica St., Jamaica, N. Y.
Vulcan Electric Co., 88 Holten St., Danvers, Mass.

JACKS, Transmission

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 5, Ill.



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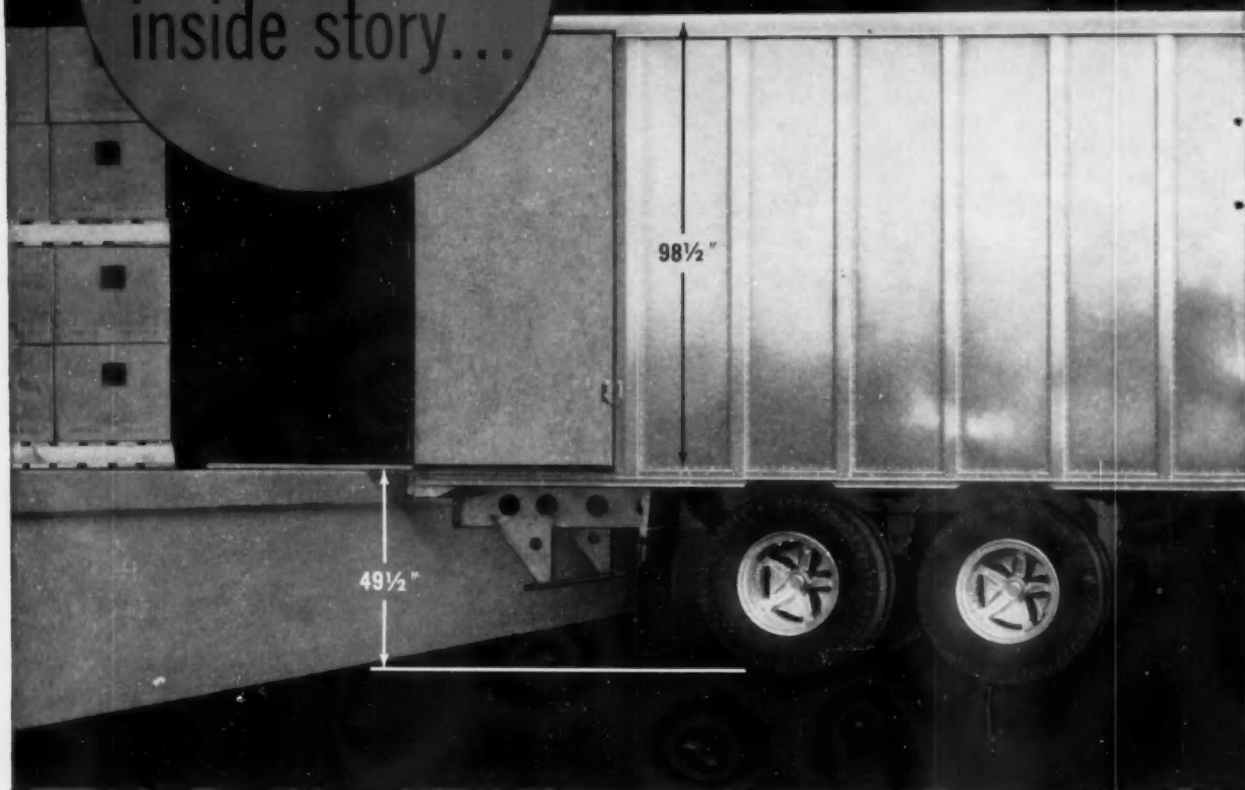


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Trailmobile's new high capacity, straight frame trailer

Revolutionary new **LO-LEVEL** upper 5th wheel†
brings drop frame capacity to a straight frame van

One long stretch of level floor with 98½" loading height from front to rear — that's Trailmobile's new high capacity, straight frame trailer.

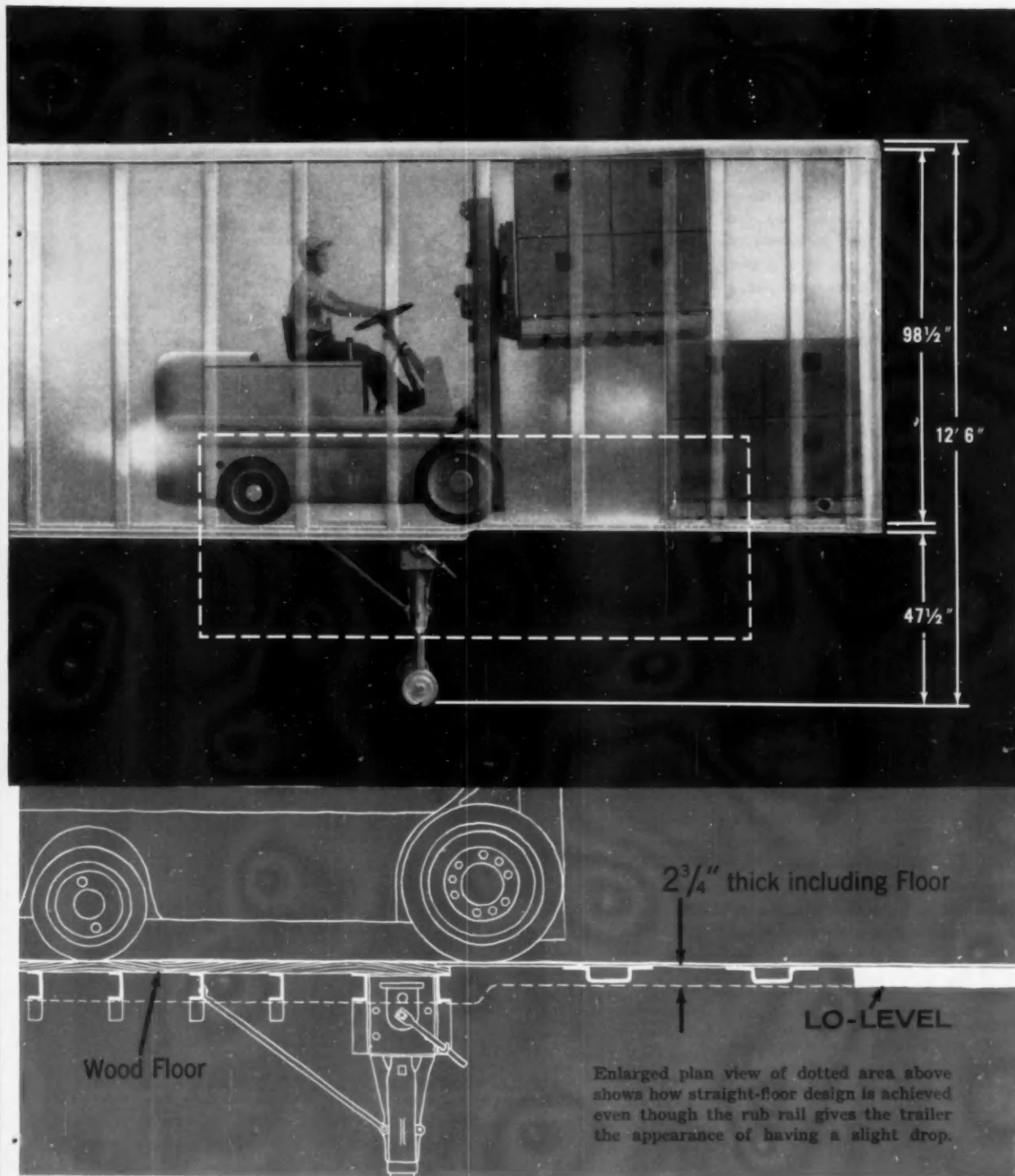
The secret of this remarkable new design is a new CID* component — the Lo-Level upper 5th wheel. Super strong yet without bulky thickness, Lo-Level actually eliminates the troublesome "step" common to drop frame trailers. The result is a straight frame trailer offering drop frame capacity without drop frame disadvantages. There are no "staircase" obstructions to impede

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†Patent applied for. *Customer Individualized Design



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jacks to lamps

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JACKS, Transmission—continued

Air Hydraulic, Inc., 15106 Broadway Ave.,
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Cleveland Pneumatic Tool Co., 3781 E. 77th St.,
Cleveland 5, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson
St., Jackson, Mich.
Manzel Div., Houdaille-Hershey Corp., 315
Babcock St., Buffalo 10, N. Y.
Stephenson Industries, Inc., 548 E. Fort St.,
Detroit 26, Mich.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd.,
Racine, Wis.
Weaver Mfg. Co., 2177 S. 9th St., Springfield,
Ill.
Wudel Mfg. Co., Edmond J., 6082 Ferguson
Dr., Los Angeles 22, Calif.

JACKS, Vehicle, Hydraulic

Ajax Mfg. Corp. of Wisconsin, 1201 Michigan
Blvd., Racine, Wis.
Auto Specialties Mfg. Co., 643 Graves St., St.
Joseph, Mich.
Bee-Line Co. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Mil-
waukee 1, Wis.
Buehrle & Son, Inc., Philip H., 168 Manalapan
Rd., Spotswood, N. J.
Chicago Pneumatic, 8 E. 44th St., New York
17, N. Y.
Cleveland Pneumatic Tool Co., Automotive
Div., 3781 E. 77th St., Cleveland 5, Ohio.
"Aerol."
Duff-Norton Mfg. Co., 2709 Preble Ave., N. S.,
Pittsburgh, Pa.
Edgewater Automotive Div. Auto Specialties
Mfg. Co., St. Joseph, Mo.
Hein-Werner Corp., 1200 National Ave., Wau-
kesha, Wis.
Joyce-Cridland Co., 2027 E. First St., Dayton
3, Ohio. (Hand and floor.)
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 7,
Neb. (Bumper.)
Kington Products Corp., 1400 N. Webster St.,
Kokomo, Ind.
Lee Engineering Co., 505 Central Ave., Paw-
tucket, R. I.
March Engrs. Co., Oshkosh, Wis.
Manley Mfg. Div., American Chain & Cable
Co., E. Princess & Charles Sts., York, Pa.
Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y.
Reliable Jack Div. of Dayton Malleable Iron
Co., 1401 W. Second St., Dayton, Ohio.
R U Jack Corp., P. O. Box 205, Arcade, N. Y.
Scott-Atwater Mfg. Co., 2901 E. Hennepin
Ave., Minneapolis 13, Minn.
Smith Equipment Corp., Herb., 414 Taylor
Bldg., Rochester, N. Y.
Stephenson Foundry & Mfg. Co., J. O., 648 E.
Fort St., Detroit 6, Mich.
Templeton, Kenly & Co., 1020 S. Central Ave.,
Chicago 44, Ill.
United Motor Service, General Motors Bldg.,
Detroit 2, Mich.
Vulcan Mfg. Co., 400 W. Third St., Winona,
Minn.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd.,
Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Spring-
field, Ill.
Wilson, Inc., K. R., 215 Main St., Arcade,
N. Y.
Zamax Mfg. Co., W. Broad St. & Maple Ave.,
Haverstraw, N. Y.

JACKS, Vehicle, Mechanical

Affolter Mfg. Co., 1225 5th St., S.W., Canton
11, Ohio.
Aircapitol Mfrs., Inc., 1618 S. Mead St.,
Wichita, Kansas.
Ajax Mfg. Corp. of Wisconsin, 1201 Michigan
Blvd., Racine, Wis.
Automatic Steel Products, Inc., Spun Steel
Div., 1201 Camden Ave., S. W., Canton 6,
Ohio.
Auto Specialties Mfg. Co., 643 Graves St., St.
Joseph, Mich.
Caster Mold & Machine Co., 1171 Wooster Rd.,
N., Barberton, Ohio.
Dallon Foundries, Inc., Warsaw, Ind. (Scissor
type.)
Duff-Norton Co., 2709 Preble Ave., N. S. Pitts-
burgh, Pa.
Hyde Park Iron Works Co., 931 E. 51st St.,
Brooklyn 3, N. Y.
Kent-Moore Organization, Inc., 1501 S. Jackson
St., Jackson, Mich.
Sal Metal Products Co., 120 Freeman St.,
Brooklyn, N. Y.
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7,
Ohio.
So-Lo Jack Co., Attleboro, Mass.
Templeton, Kenly & Co., 1020 S. Central Ave.,
Chicago 44, Ill.

Triangle Jack Co., 1208 S. Washington St.,
Wichita, Kan.
Vulcan Mfg. Co., 400 W. Third St., Winona,
Minn. (Bumper.)
United Motor Service, General Motors Bldg.,
Detroit 2, Mich.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd.,
Racine, Wis.
Woodworth Corp., C. B., Greene, N. Y.

JACKS, Vehicle, Pneumatic (Advertisers Only)

Bay Mfg. Div., Life Time Products Corp., Box
537-C, Youngstown 1, Ohio.

JIGS, Connecting Rod Aligning

Ammco Tools, Inc., 2100 Commonwealth Ave.,
North Chicago, Ill.
Kent-Moore Organization, Inc., 1501 S. Jackson
St., Jackson, Mich.
Lee Co., K. O., Congress at First Ave., S. E.,
Aberdeen, S. D.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4,
Mich.
Olson Co., Thomas C., 609 E. Washington
Ave., Madison 3, Wis.
Shepard-Thomson Co., 2023 W. Gage Ave.,
Los Angeles 47, Calif.
Stevens Walden, Inc., 475 Shrewsbury St.,
Worcester, Mass.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas
19, Tex.
Sunnen Products Co., 7910 Manchester Ave.,
St. Louis 17, Mo.
Wilson, Inc., K. R., Arcade, N. Y.

JIGS, Ring Gear Riveting

Lemco Products, Inc., 5490 Dunham Rd., Bed-
ford, Ohio.
Manley Div., American Chain & Cable Co.,
1100 E. Charles St., York, Pa. (Front
wheel suspension.)

KEYS, Valve Stem

Aluminum Industries, Inc., 2438 Beekman St.,
Cincinnati 25, Ohio.
Dorman Products, Inc., 1004 Sycamore St., Cin-
cinnati 2, Ohio.
Ertel Products Corp., 1400 E. 20th St., Indian-
apolis, Ind.
Jamcor Tool & Stamping Co., 3057 N. 30th
St., Milwaukee 10, Wis.
McQuay-Norris Mfg. Co., 2320 Marconi St.,
St. Louis, Mo.
Preferred Electric & Wire Co., Bush Terminal
Bldg. #28, Brooklyn 32, N. Y.
Raymond Mfg. Co., Div. of Associated Spring
Corp., 226 S. Center St., Corry, Pa.
Sealed Power Corp., 2001 Sanford St., Mus-
kegon Heights, Mich.
Toledo Steel Products Co., 6402 Cedar Rd.,
Cleveland 3, Ohio.
Thompson Products, Inc., 23555 Euclid Ave.,
Cleveland 17, Ohio.

LACQUERS

(See also Enamels)

Acme Quality Paints, Inc., 8250 St. Aubin
Ave., Detroit 11, Mich.
American Lacquer Solvents Co., Perkiomen
Junction, Phoenixville, Pa.
American Paint Co., 902 Larrabee St., Chi-
cago 10, Ill.
Automotive Finishes, Inc., P. O. Box 467
Northwestern Station, Detroit 4, Mich.
Bakelite Corp., 30 E. 42nd St., New York 17,
N. Y.
Briggs Mfg. Co., 3675 E. Outer Drive, Detroit
24, Mich.
Brown Co., Andrew, 5431 District Blvd., Los
Angeles 22, Calif.
Campbell Paint & Varnish Co., Div. Glidden
Co., 106 Gratiot St., St. Louis 2, Mo.
Day & Co., James B., 1872 Clybourn Ave.,
Chicago 14, Ill.
Ditter Color Div., Pittsburgh Plate Glass Co.,
8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Finishes Div.,
Refinish Sales, Wilmington 98, Del.
Flood & Conklin Co., 132 Chestnut St., New-
ark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass
Co., 3800 W. 143rd St., Cleveland 11, Ohio.
(Nitro-cellulose and Ethyl cellulose.)
Glidden Co., 11001 Madison Ave., Cleveland,
Ohio.
Horn Co., A. C., 10 St. & 44 Ave., Long
Island City 1, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St.,
Chicago 16, Ill.

Martin-Senour Co., 2520 Quarry St., Chicago
8, Ill. (Nitro-cellulose.)
Nason & Co., R. N., 151 Potrero Ave., San
Francisco, Calif.
Nikolas & Co., G. J., 1227 Van Buren St.,
Chicago 7, Ill.
Oxidermo Products, Inc., Springport, Mich.
Pierce & Stevens, Inc., 710 Ohio St., Buffalo,
N. Y.
Pittsburgh Plate Glass Co., Paint Div., 1
Gateway Center, Pittsburgh 22, Pa.
Plasti-Kote, Inc., 9801 Harvard Rd., N.W.,
Cleveland 5, Ohio.
Rinsched-Mason Co., 5935 Milford St., Detroit
10, Mich.
Sherwin-Williams Co., 101 Prospect Ave.,
N. W., Cleveland 1, Ohio.
Standard-Toch Chemicals, Inc., 2600 Rich-
mond Terrace, Staten Island 3, N. Y.
United Chromium Div., Metal & Thermit Corp.,
100 E. 42nd St., New York 17, N. Y.

LAMP BULBS, Miniature Incandescent

Carlton Lamp Div., Hudson Lamp Co., 528 Elm
St., Arlington, N. J.
General Electric Co., Miniature Lamp Dept.,
Nela Park, Cleveland, Ohio.
Hudson Lamp Co., 528 Elm St., Kearny, N. J.
Matchless Electric Co., 1700 Washington Blvd.,
Chicago 12, Ill.
National Carbon Co., Div. of Union Carbide &
Carbon Co., 30 E. 42nd St., New York 17,
N. Y.
Save Lamp Co., 3687 Ash St., Baltimore 11,
Md.
Sylvania Electric Products, Inc., Lighting Div.,
60 Boston St., Salem, Mass.
Tung-Sol Electric, Inc., 95 Eighth Ave., New-
ark 4, N. J.
Lamp Div., Westinghouse Electric Corp., Mac-
Arthur Ave., Bloomfield, N. J.

LAMP LENSES, See Lenses, Lamp

LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop

Akron Specialty Mfg. Co., 119 Ira Ave., Akron
1, Ohio. (Marker.)
American Automatic Devices Co., 500 S.
Throop St., Chicago 7, Ill. (Tail, parking
and clearance.)
Anthes Force Oiler Co., Ft. Madison, Iowa.
(Tail, parking and clearance.)
Apco Mossberg Co., Lamb St., Attleboro, Mass.
(License plate.)
Arrow Safety Device Co., M. Holly, N. J.
(Tail, dome, parking and clearance.)
Auto Lamp Mfr. Co., 2009 S. Indiana Ave.,
Chicago 9, Ill. (Clearance marker & back-
up.)
Berg Mfg. & Sales Co., 1712 S. Michigan Blvd.,
Chicago 16, Ill. (Including trailer clear-
ance and retractable type stop lamps.)
Betts Machine Co., 1800 Pennsylvania Ave. W.,
Warren, Pa.
Bolser Corp., S. Main St., Cedar Falls, Iowa.
(Clearance and marker.)
Bowman Automotive Plastics Co., Box 536,
Olmstead Falls, Ohio. (Tail.)
Cole Automotive Products Co., 2040 Fifth St.,
Detroit 1, Mich. (Clearance, tail and
marker for trucks and buses.)
Columbus Metal Products Co., 1341 Norton
Ave., Columbus 8, Ohio. (Dome, marker,
clearance, back-up, etc.)
Cox Mfg. Co., 305 N. Wayne St., Angola,
Ind. (Clearance.)
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1,
N. Y. (Dome, back-up, tail, parking, run-
ning board and clearance.)
Do-Ray Lamp Co., 1458 S. Michigan Ave.,
Chicago 5, Ill.
Electric Auto-Lite Co., Lamp Div., Lockland,
Ohio. (Cowl, fender, tail and clearance.)
Electric Service Mfg. Co., 17th & Cambria
Sts., Philadelphia 32, Pa.
Electroline Mfg. Co., 2622 E. 51st St., Cleve-
land 4, Ohio.
Federal Sign & Signal Corp., 8765 S. State St.,
Chicago 19, Ill. (Revolving warning light,
flashing red light for emergency vehicles,
also combination siren & warning light.)
General Electric Co., Miniature Lamp Dept.,
Nela Park, Cleveland 12, Ohio. "GE."
Griffin Lamp Co., 401 S. Third St., Hamilton,
Ohio. (Clearance dome, back-up, tail and
marker and flashing warning lamps, emer-
gency vehicle; fuel compartment lamps.)
Grote Mfg. Co., Grote Square, Bellevue, Ky.
(Tail, back-up, dome, clearance, com-
bination stop, tail and license bracket.)
Guide Lamp Div., General Motors Corp., 25th
St. & Arrow Ave., Anderson, Ind.
H & P Die & Stamping Co., 13945 Trickett
Rd., Cleveland 11, Ohio.



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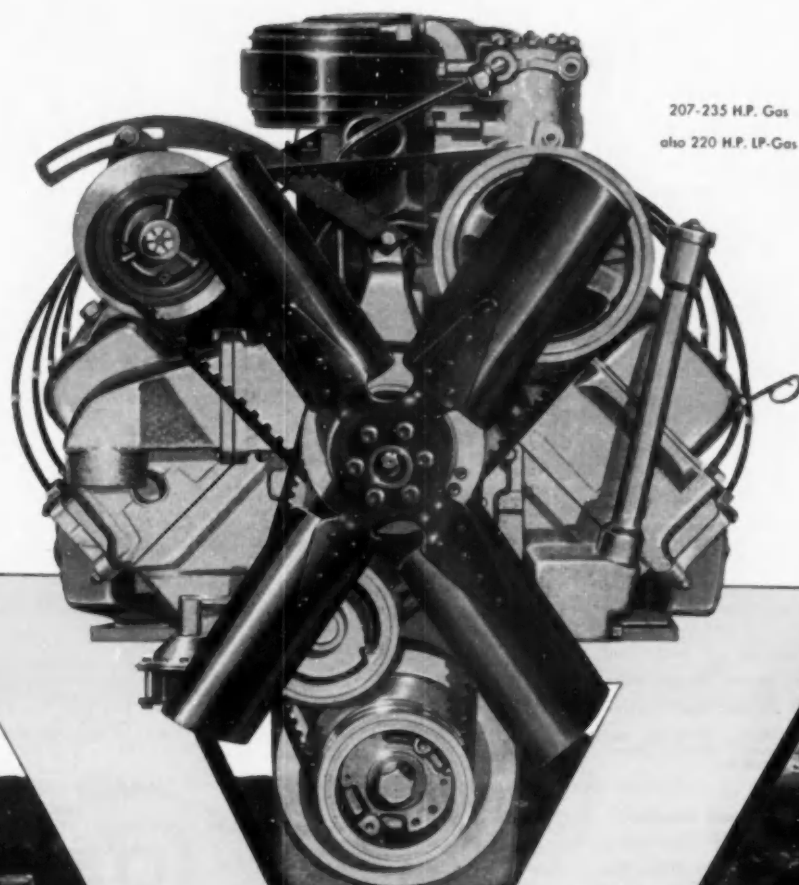
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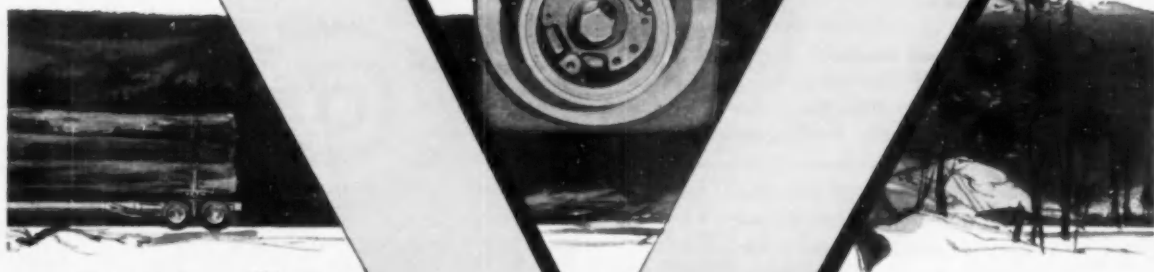


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K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Back-up, fender, dome, tail, parking and clearance.)
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Look & Co., R. J., 243 N. Gay St., Baltimore, Md. (Parking.)
McKee Glass Co., Bullitt Ave., Jeannette, Pa. (Dome.)
Miro-Flex Co., 1824 E. 2nd St., Wichita 7, Kan. (Clearance and marker.)
Norlipp Co., 5926 S. Lowe Ave., Chicago 21, Ill. (Clearance and back-up.)
Piqua Engineering, Inc., 112 E. Ash St., Piqua, Ohio. (Side lamps for hearses and ambulances.)
Rosen & Co., A. W., 447 Tenth Ave., New York 7, N. Y. (Cowl, fender, dome, marker, parking and clearance.)
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Cal. (Tail, parking clearance, fender, back-up and dome.)
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y. (Dome and tail.)
Spartan Automotive Div. of Sparks-Withington, Jackson, Mich. (Armored, clearance, flush-type, back-up, marker, tail, and combination stop and tail.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Back-up, clearance, tail, and marker.)
Speedometer Service Co., 151 Forest St., Montclair, N. J. (Hood, trunk and glove compartment.)
Standard-Thompson Corp., Vandalia, Ohio. (Back-up.)
Superior Parts Mfg. Corp., 1922 W. Grand Ave., Chicago 22, Ill. (Clearance.)
Terado Co., 1068 Raymond Ave., St. Paul 13, Minn.
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Dome.)
Thatcher Glass Mfg. Co., McKee Div., Jeannette, Pa. (Dome.)
Trippe Mfg. Co., 218 N. Jefferson St., Chicago 6, Ill.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y. (Back-up.)
U. S. Tool & Mfg. Co., 1832 N. Sheffield Ave., Chicago, Ill. (Clearance for trucks and buses.)
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Back-up.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Fender, back-up, clearance, dome, parking and tail.)

LAMPS, Drying, Baking and Heating

Dry Clime Lamp Corp., 410 Mill St., Greensburg, Ind.
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio.
General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio.
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill. (Infra-red.)
North American Electric Lamp Co., 1520 N. 13th St., St. Louis 6, Mo. (Infra-red.)
Penetray Corp., 615 Front St., Toledo 5, Ohio. (Infra-red.)
Trippe Mfg. Co., 218 N. Jefferson St., Chicago 6, Ill.
Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMPS, Fog, Head and Spot

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill.
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. (Spot.)
Arnold Corp., Automatic Div., Argonne Rd., Warsaw, Ind.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill. (Fog and spot.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. (Fog and road.)
Carpenter Mfg. Co., 195 Master Light Bldg., Somerville 45, Mass.
Caseo Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. (Spot.)
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. (Fog and road.)
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Fog and spot.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.

Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. (Fog and road.)
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland 12, Ohio.
General Electric Co., Wiring Devices Dept., 95 Hathaway St., Providence 7, R. I. (Spot.)
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Fog.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Fog.)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Hall Lamp Co., C. M., 1055 E. Hancock Ave., Detroit, Mich. (Fog.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 58, Calif. (Road and spot.)
Matchless Electric Co., 1423 W. Lake St., Chicago 7, Ill.
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Fog and auxiliary driving.)
Standard-Thompson Corp., Vandalia, Ohio. (Spot.)
Tung-Sol Electric, Inc., 95 8th Ave., Newark 4, N. J.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y. (Fog.)
United Motor Service, General Motor Bldg., Detroit 2, Mich.
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Fog.)
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

LAMPS, HEAD, See Lamps, Fog, Head and Spot

LAMPS, Sealed Beam Units

Electric Auto-Lite Co., Toledo 1, Ohio.
General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio.
Guide Lamp Div., General Motors Corp., 25 St. & Arrow Ave., Anderson, Ind.
Trippe Mfg. Co., 609 W. Lake St., Chicago 6, Ill.
Tung-Sol Electric, Inc., 95-8th Ave., Newark 4, N. J.
United Motor Service, General Motor Bldg., Detroit 2, Mich.
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.

LAMPS, Tell-Tale, Rear Signal or Tail Lamp, Dash

Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Running lights.)
Ekland Tool & Mfg. Co., 2627 N. Western Ave., Chicago 47, Ill.
Rosen & Co., A. W., 447 Tenth Ave., New York 7, N. Y.
Signal-Stat Corp., Signal-Stat Bldg., 523-39 Kent Ave., Brooklyn 11, N. Y. (Hand brake and stop light.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Hand brake.)

LAMPS, Trouble, Battery Operated

Alden Products Co., 117 N. Main St., Brockton 64, Mass. (Plugs into cigar lighter socket.)
Arsoo Mfg. & Sales Co., 451 Tenth Ave., N. Y. (Plugs into cigar lighter socket.)
Busch & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill. (Plugs into cigar lighter socket.)
Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
Electrolite Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Enco Mfg. Co., 4520 W. Fullerton Ave., Chicago 39, Ill.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. (Plugs into cigar lighter socket.)
Hollywood Accessories, Inc., 11917 W. Olympic Blvd., Los Angeles 64, Calif. (Plugs into cigar lighter socket.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.

Kilborn-Sauer Co., Post Rd., Fairfield, Conn. (Also magnetic.)
Perfection Automotive Products Corp., 725 W. Elizabeth St., Detroit 1, Mich.
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester, Mass.
Standard Portable Cord Co., Mayville, N. Y.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.
Walker Bros., River & End Sts., Conshohocken, Pa.
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J. (Plugs into cigar lighter socket.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

LAMPS, Trouble, Electric

Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill.
Arrow Safety Device Co., Mt. Holly, N. J.
Benjamin Reel Products, Inc., 10700 Broadway, Cleveland 25, Ohio.
Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa.
Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass.
Champion Cable Co., 1805 E. 40th St., Cleveland 30, Ohio.
Cordomatic, Dept. C, 17th and Indiana, Philadelphia 32, Pa.
Crescent Co., Pawtucket, R. I.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza, S., Long Island City, N. Y.
General Electric Co., Wiring Device Dept., 95 Hathaway St., Providence 7, R. I.
Glade Mfg. Co., 1832 W. 75th Place, Chicago 20, Ill.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Magnetic.)
Magnetix, Inc., 101 S. Van Brunt St., Englewood, N. J. (Magnetic.)
McGill Mfg. Co., Electrical Div., 259 Indiana Ave., Valparaiso, Ind.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.
Royal Electric Co., 95 Grand Ave., Pawtucket, R. I.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Standard Portable Cord Co., Mayville, N. Y.
Thompson-Neaylon Mfg. Co., 3551 S. Morgan St., Chicago 9, Ill.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.
Walker Bros., River & End Sts., Conshohocken, Pa.

LAMPS, Warning

Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass. (Roof mounted, colored and flashing.)
Portable Light Co., 216 William St., New York 38, N. Y.
Pyle National Co., 1334 N. Kostner Ave., Chicago 51, Ill. (Revolving.)
Trippe Mfg. Co., 218 N. Jefferson St., Chicago 6, Ill. (Revolving flashing.)

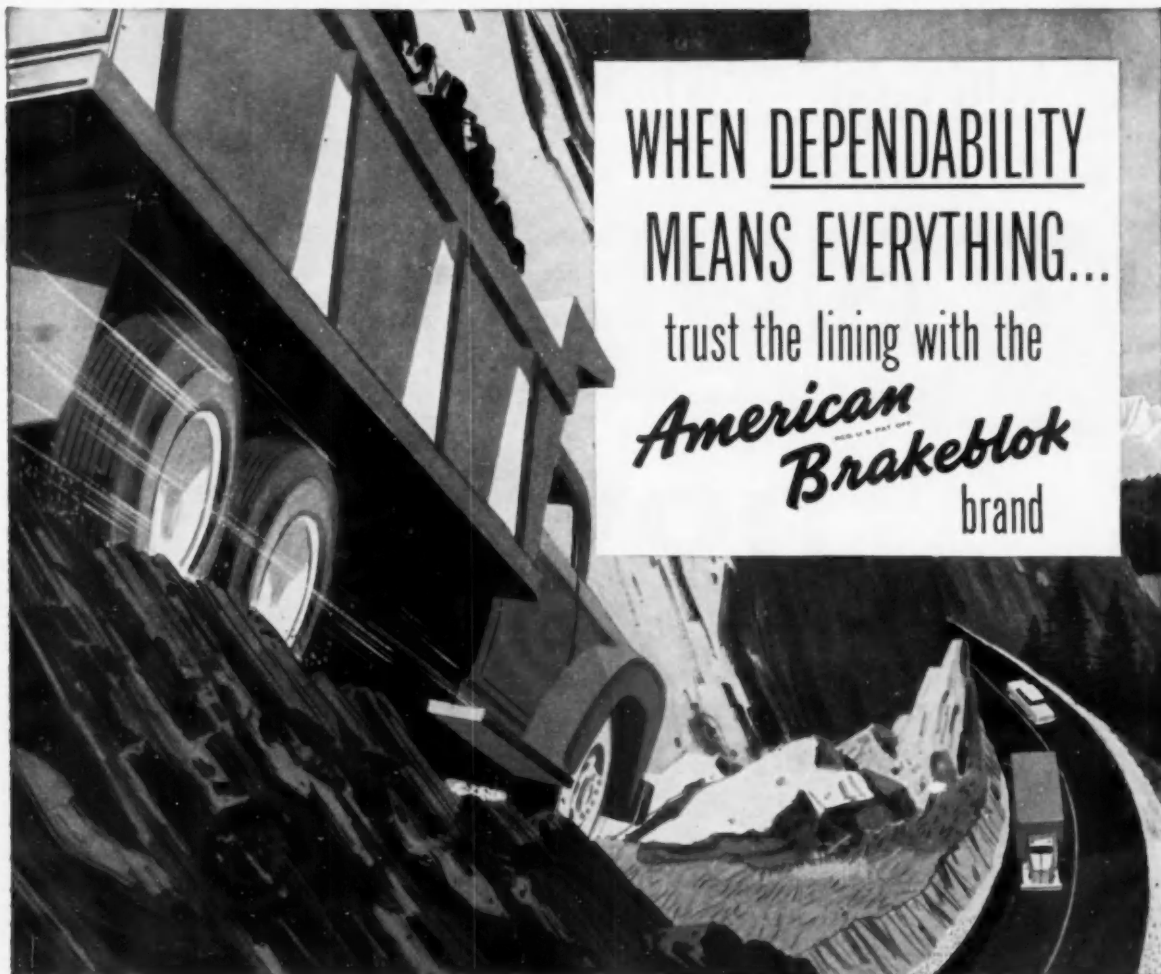
LANDING GEARS, TRAILER, See Gears, Landing Trailer

LATHES, Bench

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.
Blount Co., J. G., 10 Woodland St., Everett 49, Mass.
Elgin Tool Works, 67 N. State St., Elgin, Ill.
Harding Bros., Inc., 1418 College Ave., Elmira, N. Y. (Precision.)
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Precision.)
LeBlond Machine Tool Co., R. K., Madison & Edwards Rds., Cincinnati 8, Ohio.
Rivett Lathe & Grinder, Inc., 20 Riverview Rd., Brighton, Boston, Mass.
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.
Springfield Machine Tool Co., Springfield, Ohio.
Wood Co., Frank N., 844 W. Main St., Waukesha, Wis. (Piston regrooving & cleaning lathe.)

LATHES, Brake Drum

Ammono Tools, Inc., 2118 Commonwealth Ave., North Chicago, Ill.



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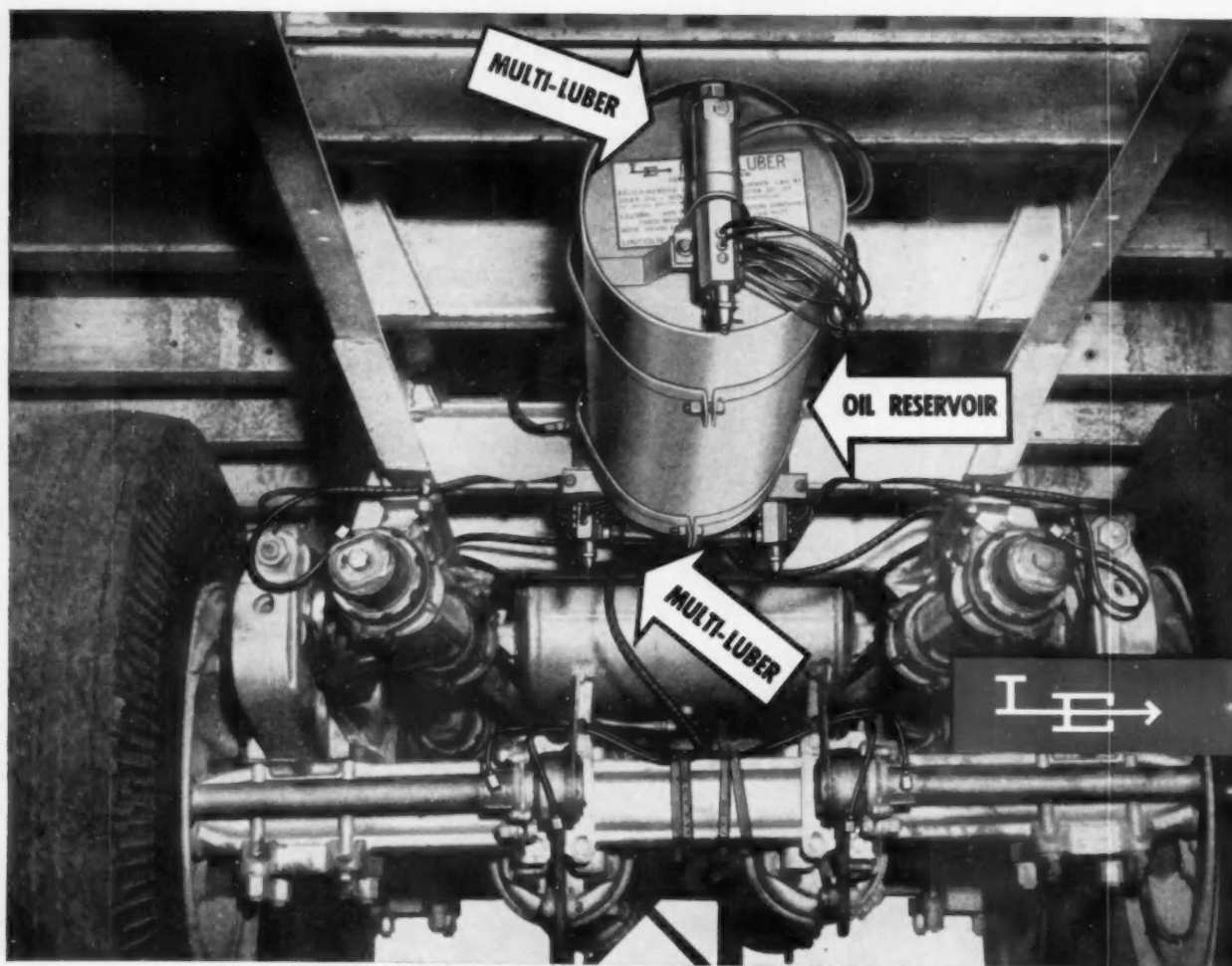
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Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Dixie-Jibo Co., 2004 Mullaphy St., St. Louis 6, Mo.
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.
Shepard-Thomson Co., 2023 W. Gage Ave., Los Angeles 47, Calif.
Star Machine Tool Co., 201 Sixth St. S.E., Minneapolis 14, Minn.
Sunstrand Machine Tool Co., 2531 Eleventh St., Rockford, Ill.
Van Norman Automotive Equipment Co., 3640 Main St., Springfield 7, Mass.
VanTool, 189 N. 22nd St., Philadelphia 3, Pa.

LATHES, COMMUTATOR, See Undercutters, Mica

LIFT TRUCKS, See Trucks, Lift

LIFTS, Portable One End

Automatic Equipment Mfg. Co., 11000 S. Alameda St., Lynwood, Cal.
Automatic Steel Products, Inc., 1201 Camden Ave., S.W., Canton 6, Ohio.
Bay Mfg. Div., Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

LIFTS, TRANSMISSION, See Jacks, Transmissions.

LIFTS, Vehicle, Electric

Globe Hoist Co., E. Mermald Lane & Queen St., Philadelphia 18, Pa.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

LIFTS, Vehical, Hydraulic

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. (Also portable.)
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo.
Energy Farm Equipment Co., Monticello, Idaho.
Gilbert & Barker Mfg. Co., West Springfield, Mass.
Globe Hoist Co., E. Mermald Lane & Queen St., Philadelphia 18, Pa. (Air and electrically operated.)
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. (Air operated.)
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Pneumatic-hydraulic.)
Wilson, Inc., K. R., Arcade, N. Y. (Rotary.)

LIFTS, Vehicle, Pneumatic

Automatic Equipment Mfg. Co., 11000 South Alameda St., Lynwood, Calif.
Bay Mfg. Div., Life Time Products Corp., Box 537, Youngstown, Ohio.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Homestead Valve Mfg. Co. (Hypresure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. (One end.)
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y. (Portable, one end.)

LIGHTS, See Lamps and Lamp Bulbs

LIGHTS, Timing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. (Neon type.)
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Neon & power types.)
Araco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Neon type.)
Auto Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill. (Neon & power types.)
Dorothea Mechanisms, Inc., Gale, 39-39 63rd St., Woodside, L. I., N. Y.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon type.)
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J.
Kal-Equipment Co., 1317 Ravine St., Kalamazoo, Mich.
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Neon type.)
Niehoff Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Neon type.)
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio. (Neon and power types.)
Sittler Corp., 18 N. Ada St., Chicago 7, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Neon type.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon type.)
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Neon type.)
Tippett Timer, 5822 Helen St., Jennings 21, Mo.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Tungsten Mfg. Co., 1923 E. 79th St., Chicago 49, Ill. (Neon & power type.)
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa. (Neon & power type.) Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.

LINER, Body, Truck Trailer,

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Spring Packing Corp., 332 S. Michigan Ave., Chicago 4, Ill. (Brush-on plastic.)

LINING, Brake

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa.
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
General Metals Powder Co., 130 Elinor Ave., Akron 6, Ohio.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Div. Movement Automotive Products, Inc., 700 W. Caroline St., Paulding, Ohio.
Hop Webbing Co., P. O. Box 1495, Providence 1, R. I.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Lasco Brake Products Corp., 2615 Magnolia St., Oakland, Calif.
Marshall-Eclipse Div. of Bendix Aviation Corp., Box 538, Troy, N. Y.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Molded Materials Div., Carlisle Corp., Gullis Ave., Ridgway, Pa. "Mold-Block."
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
National Vulcanize Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. (Fibre.)
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.

Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Rosendale Ruboil Co., 30 Euclid Ave., Newark, N. J.
Russell Mfg. Co., Middletown, Conn. "Russco."
Scandinavia Belting Co., 744 Broad St., Newark, N. J.
Silver Line Brake Lining Corp., 5618 E. Washington Blvd., Los Angeles 22, Calif.
Southern Friction Materials Co., Box 1475, Charlotte, N. C.
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
Triplewear, Inc., 633 40th St., Union City, N. J.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Universal Friction Materials Co., 1700 United Artists Bldg., Detroit 26, Mich.
Wagner Electric Corp., 6409 Plymouth Ave., St. Louis 14, Mo.
Wellman Co., S. K., 200 Egbert St., Bedford, Ohio.
World Bestos Div. of Firestone Tire & Rubber Co., 1112 S. 25th St., New Castle, Ind.

LINKS, Shock Absorber

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio.
Automotive Mfg. Co., 670 W. Fulton St., Chicago 6, Ill.
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Baahian & Sons Co., Henry, 40391 Grand River Ave., Farmington, Mich.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Doan Mfg. Corp., 1761 London Rd., Cleveland 12, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Preferred Electric & Wire Co., Bush Term. Bldg. #8, Brooklyn 32, N. Y.
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill.
Wohler Corp., 700 E. Grand River Ave., Lansing 5, Mich.

LINKS, Tire Chain Repair

Campbell Chain Co., York, Pa.
Flower City Specialty Co., 158 Hollenbeck St., Rochester, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo.
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
Republic Steel Corp., Bolt & Chain Div., 1970 Carter St., Cleveland 13, Ohio.
Roll-O-Matic Chain Co., 200 Wyandotte St., Kansas City 5, W. Mo.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind.
Western Chain Co., 1897 Belmont Ave., Chicago 13, Ill.
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y.

LOAD BINDERS

American Logging Tool Corp., 4203 Union Blvd., St. Louis 15, Mo.
Canton Cast Products Co., 2400 13 St., N.E., Canton 5, Ohio. (Also exclusive distributor for American Forge & Mfg. Co.) (Ratchet type.)
Canton Malleable Iron, Canton, Ohio.
Eagle Mfg. Co., Appleton, Wis.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif.
Stacy Mfg. Co., Tiffin, Ohio.



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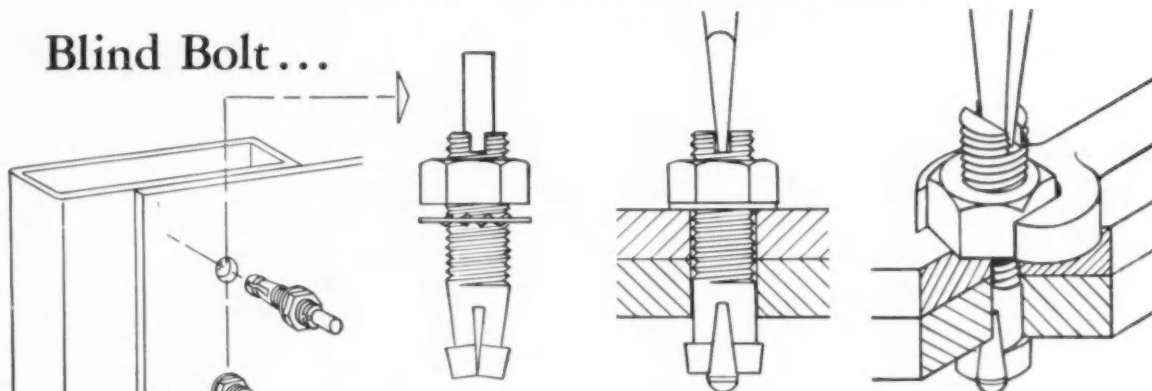


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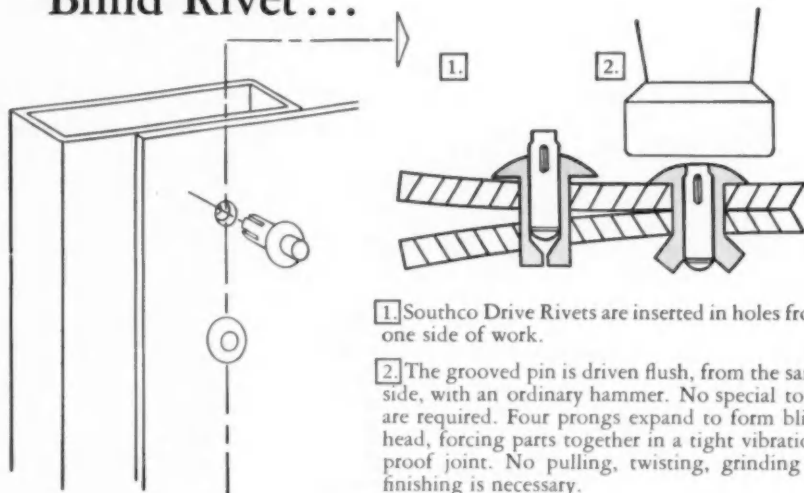


1. This is the Southco "Drivebolt" Fastener. A nut is threaded on and the bolt is inserted from one side of the work.

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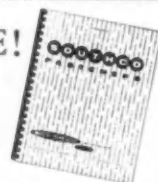
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 Convento Mfg. Co., Cambridge City, Ind.
 Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.
 Gar Wood Industries, Inc., Wayne, Mich.
 Heil Co., Dept. 62115, 3000 W. Montana St., Milwaukee 1, Wis.
 Hercules Galion Products, Inc., Galion, Ohio.
 Marion Metal Products Co., Cheney Ave., Marion, Ohio. "Marion Hydrogate."
 Perfection Steel Body Co., S. East St., Galion, Ohio.
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J.
 Ven Corp., 2828 Newell St., Los Angeles 39, Cal.

LOCKS, Brake, Hill Holding

Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
 Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. (Also front brake control.)
 Sharp Mfg. Co., 109 W. Columbus St., Nelsonville, Ohio.
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
 Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

LOCKS, Ignition

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
 Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Eagle Lock & Screw Co., S. Main St., Terryville, Conn.
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Automotive Specialty Co., 10-40 46th Ave., Long Island City 1, N. Y.
 Hurd Lock & Mfg. Co., 219 N. Main St., Almont, Mich.
 Miller Co., L. B., 394 State St., Stamford, Conn.
 United Specialties Co., Mitchell Div., Shelmire & Edmund Sta. (Holmesburg), Philadelphia, Pa.

LOCKS, Trailer

Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
 Chicago Lock Co., 2024 N. Racine Ave., Chicago 4, Ill.
 Lavin Machine & Mfg. Wks., A. M., Hathboro, Pa. (Trailer hitch.)

LP GAS, See Fuels, Engine**LUBRICANTS, ENGINE & CHASSIS, See Oils and Lubricants****LUBRICANTS, GEAR, See Oils and Lubricants****LUBRICANTS, Tire**

American Grease Stick Co., 1146 Hoyt St., Muskegon, Mich.
 American Sand-Banum Co., Inc., 9 Rockefeller Plaza, N. Y. 20, N. Y.
 Bishman Mfg. Co., Osseo 4, Minn.
 Cohutta Talc Co., P. O. Drawer 363, Dalton, Ga.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Goodrich Co., Tire & Equipment Div., B. F., 600 S. Main St., Akron, Ohio.
 Gross Mfg. Co., 1711 California St., Monrovia, Calif.
 National Adhesives Div. of National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
 Rawhide Products Co., Michigan Ave., Kenilworth, N. J.

LUBRICANTS, Automatic, Vehicle Mounted

(Advertisers Only)

Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo.

LUBRICANTS, Hand

Adams Grease Gun, 1051 Atlantic Ave., Brooklyn 38, N. Y.

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Bishman Mfg. Co., Osseo, Minn.
 Coil Mfg. Co., 1013 N. Fares Ave., Evansville 11, Ind. (Universal joint, clutch and shock absorber.)
 De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
 Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
 Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 6, Ill. "Imco-Lube."
 K. F. Mfg. Co., 1226 Linden Ave., Minneapolis 1, Minn.
 Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
 Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
 Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
 Stewart-Warner Corp., Alemitte Div., 1826 Diversey Parkway, Chicago 14, Ill.
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
 Wood Co., John, Bennett Pump Div., Broadway & Wood St., Muskegon, Mich.

LUBRICANTS, Portable, High Pressure, Compressed Air

Adams Grease Gun, 1051 Atlantic Ave., Brooklyn 38, N. Y.
 Aero Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Brown Grease Gun Co., Charlotte, N. C.
 Bud-Air Co., R. D. 1, Pulaski, N. Y.
 Cemco Industries, Inc., Galion, Ohio.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
 Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
 Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
 Stewart-Warner Corp., Alemitte Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemitte."
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.

LUBRICANTS, Portable, High Pressure, Electric

Adams Grease Gun, 1051 Atlantic Ave., Brooklyn 38, N. Y.
 Aero Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill.
 Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Stewart-Warner Corp., Alemitte Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemitte."
 Wilson, Inc., K. R., 215 Main St., Arcade, N. Y.

LUBRICANTS, Portable, High Pressure, Hand Operated

Adams Grease Gun, 1051 Atlantic Ave., Brooklyn 38, N. Y.
 Aero Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Jiffy Lubricator Co., 304 Second Ave., Fargo, N. D.
 Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Stewart-Warner Corp., Alemitte Div., 1826 Diversey Parkway, Chicago 14, Ill.
 United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
 Wayne Pump Co., Wayne-Marvel Div., Salisbury, Md.

LUBRICATORS, Stationary, High Pressure, Compressed Air

Aero Equipment Corp., Bryan, Ohio.
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
 Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
 Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
 Stewart-Warner Corp., Alemitte Div., 1826 Diversey Parkway, Chicago 14, Ill.
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

LUBRICATORS, Upper Cylinder

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.
 Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.
 So-Lo Jack Co., Attleboro, Mass.
 Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
 United States Avicorp., 135 Maple St., Niles, Mich.
 White Automotive Products, Inc., 1604 Douglas Ave., North Providence 4, R. I. (Sole distributor, R. M. Hollingshead Co., 849 Cooper St., Camden 2, N. J.)

LUGS, Solderless

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 Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Connecting rod.)

MACHINES, Bending, Cracked Cylinders

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
 Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
 Moguloid Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. (Acr.)

MACHINES, Boring, Main Bearing, Connecting Rod and Camshaft

(See also Reamers, Main Bearing and Connecting Rod)

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 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. (Main bearing.)
 Ex-Cell Corp., 1200 Oakman Blvd., Detroit 22, Mich.
 Fulmer Co., C. Allen, 1211 First National Bank Bldg., Cincinnati, Ohio.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Main and camshaft bearing.)
 Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.
 Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex. (Connecting rod bearing.)
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
 Tobin-Arp Mfg. Co., 6400 Penn Ave., S., Minneapolis 23, Minn.
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

MACHINES, Boring, Piston Pin Bushing

Ex-Cell-O Corp., 1200 Oakman Blvd., Detroit 22, Mich.
 Tobin-Arp Mfg. Co., 6400 Penn Ave., S., Minneapolis 23, Minn.

MACHINES, Brake Relining

Barrett Equipment Co., 2101 Cass Ave., St. Louis, Mo.
 Chicago Rivet & Machine Co., 9808 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) (Reliners and rivet setters, combination deliner, reliner and grinder, etc.)

machines to motors

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Grigg Specialty Tools, 8103 Marblaw Ave., Huntington Park, Calif.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
National Rivet & Mfg. Co., Waupun, Wis.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif. (Combination brake lining and brake shoe grinding.)
Star Machine & Tool Co., 201 Sixth St., S. E., Minneapolis 14, Minn.
Wilson, Inc., K. R., Arcade, N. Y.

MACHINES, Clutch Rebuilding

(See also Tools, Clutch Alignment)

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Van Norman Co., Springfield 7, Mass.
Westbrook Industries, Inc., 140 Malvern St., Newark 5, N. J. (Bonding oven and related equipment.)

MACHINES, FRONT END & AXLE ALIGNMENT, See Gages, Wheel & Axle Alignment

MACHINES, Piston Turning and Grinding

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Landis Tool Co., 10th & Church St., Waynesboro, Pa. (Grinding.)
Store-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Van Norman Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.

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Dow Chemical Co., 919 Jefferson Ave., Midland, Mich. (Bars, rods, shapes, sheet and plate.)
Federated Metals Div. American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Niagara Falls Smelting & Refining Div. Continental Copper & Steel Industries, Inc., 2204 Elmwood Ave., Buffalo 23, N. Y.
Wellman Bronze & Aluminum Co., 12800 Shaker Blvd., Cleveland 20, Ohio

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Fairbanks Morse & Co., Magneto Div., Beloit, Wis.
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

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International Parts Corp., 11th & State Sts., Chicago 5, Ill.
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Weilana Power & Racing Equip., 2733 San Fernando Rd., Los Angeles 65, Calif.

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Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

MAPS

Hearne Bros., National Bldg., Detroit 26, Mich.

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Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
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Hanson-Van Winkle-Munning Co., Matawan, N. J.
Ken-nite Co., 2936 Hancock Ave., W., Detroit 8, Mich.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Swavey Chemical & Varnish Works, 831 Page St., Flint 5, Mich.
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Continental Tapes, P. O. Box 256, Cayce, S. C.
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Hampton Mfg. Co., Industrial Tape Div., 111 Cedar St., New Rochelle, N. Y.
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Permacel Tape Corp., U. S. Highway #1, New Brunswick, N. J.
Seamless Rubber Co., 253 Hallock Ave., New Haven 3, Conn.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.

MASKS, Lettering

Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.

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Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass. (Automatic.)
Romort Mfg. Co., Oakfield, Wis.
Wood Co., John, Bennett Pump Div., Broadway & Wood Sts., Muskegon, Mich. (Combination air & water supply unit also.)

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American Instrument Co., Silver Springs, Md.
Bennett-Feragen 1408 Jerome St., Niles, Mich.
Tapley Products, 53 Park Place, New York 7, N. Y.

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METERS, Exhaust Smoke

Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

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Ammco Tools, Inc., 2130 Commonwealth Ave., North Chicago, Ill. (Brake drum.)
Automatic Service Tools, Inc., 700 Sheridan St., Lansing 6, Mich. (Crankshaft and brake drum.)
Bath & Co., John, 18 Grafton St., Worcester 8, Mass. (Internal.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Central Tool Co., 456 Wellington Ave., Cranston 10, R. I.

Do All, 254 N. Laurel Ave., Des Plaines, Ill.
Federal-Mogul Service, Detroit 13, Mich. (Crankshaft gage.)
Federal Products Corp., 1144 Eddy St., Providence 1, R. I. (Indicating.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Crankshaft, inside, outside, etc.)
Millers Falls Co., Greenfield, Mass.
National Acme Co., 170 E. 131st St., Cleveland 8, Ohio.
Pratt & Whitney, Charter Oak Blvd., West Hartford 1, Conn.
Rimat Gage Co., 21 W. Dayton St., Pasadena 2, Calif. (Inside.)
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co. of America, 10641 Haggerty Ave., Dearborn, Mich.
Van Keuren Co., 176 Waltham St., Watertown, Mass. (Light wave.)

MIRRORS, Panel, Bus

Acme Specialty Mfg. Co., 2298 Smead Ave., Toledo 6, Ohio.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Standard Mirror Co., 141 Milton St., Buffalo 10, N. Y.

MIRRORS, Rear View

Anderson Co., 1075 Grant St., Gary 40, Ind.
Anthes Force Oil Co., Fort Madison, Iowa. (West Coast type.)
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill.
Arrow Safety Devices Co., Mt. Holly, N. J.
Huber Corp., S. Main St., Cedar Falls, Iowa.
Caseo Products Corp., 512 Hancock Ave., Bridgeport 2, Conn.
Cole Automotive Products Co., P. O. Box 56, Alfred St. Station, Detroit, Mich.
"Defrasto" Mirrors, Inc., 11298 S. Alameda St., Lynwood, Calif.
Dietz Co., H. E., 225 Wilkinson St., Syracuse 1, N. Y.
Doray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Ave., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Libbey-Owens-Ford Glass Co., 608 Madison Ave., Toledo 3, Ohio.
Prutman, Ted., 1606 E. 88th St., Los Angeles 2, Calif.
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Outside truck.)
Speaker Corp., J. W., 3059 N. Well St., Milwaukee 12, Wis. (Truck.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

MOLDS, Tire Recapping and Retreading

American Tire Machinery, Inc., 724 S. Elliott St., Muncie, Ind.
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Calif.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 1, Cal. (Sectional.)
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Heintz & Co., James C., 3738 W. 14th St., Cleveland 11, Ohio.
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.

MONORAILS—See Cranes, Monorail MOTOR OIL, See Oils & Lubricants (Engine & Chassis)

MOTORS, Starting, Air

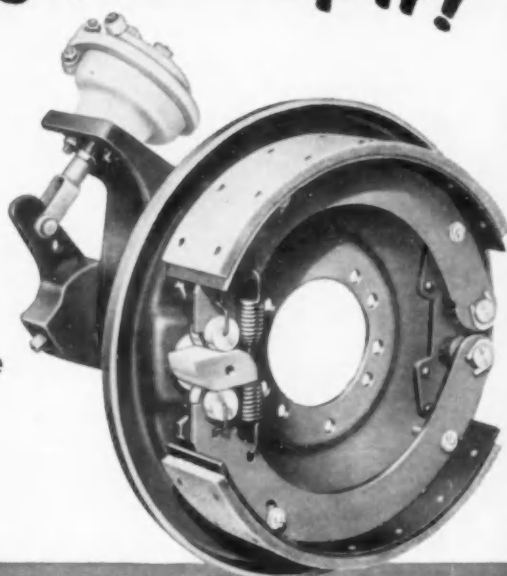
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
GMC Truck & Coach Div., General Motors Corp., 650 So. Blvd., E., Pontiac 11, Mich.
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General Armature & Mfg. Co., Box 370, Mill Hall, Penna.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.
United Motor Service, General Motors Bldg., Detroit 2, Mich.

MOUNTINGS, Rubber, Insulated

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Atlantic India Rubber Works, Inc., 571 W. Polk St., Chicago 7, Ill.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.
Bushings, Inc., 4358 Coolidge Highway, Royal Oak, Mich.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Engine, for Ford and Chevrolet cars.)
Doan Mfg. Corp., 1761 London Road, Cleveland 12, Ohio.
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
General Tire & Rubber Co., Industrial Products Div., Wabash, Ind.
Goodrich Co., Industrial Prods., B. F., 500 S. Main St., Akron, Ohio. (Engine and radiator.)
Harris Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio. (Licensees.)
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
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Parts Mfg. Co., 311 W. 66th St., New York 25, N. Y.
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Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
Rodic Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wohler Corp., 700 E. Grand Ave., Lansing 5, Mich.

MUD, Flaps, See Guards, Splash

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Caulkins Mufflers, P. O. Box 724, New London, Conn.
Coachcraft Ltd., 9015 Santa Monica Blvd., Hollywood 46, Calif.
Defiance Mfg. Co., Defiance, Ohio.
De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.
Donaldson Co., Inc., 666 Felham Blvd., St. Paul 14, Minn.
Douglas Muffler Mfg. Co., 5636 E. Shull St., Bell Gardens, Calif.
Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Grand Automotive Prods., 2055 N. Ruby St., Melrose Park, Ill.
Haviland Co., Arnold, Defiance, Ohio.

Hayes Industries, Inc., Wildwood and Fern Aves., Jackson, Mich.
Hill Mfg. Co., C. L., 210 South Ave., E. Cansford, N. J. (Vacuum, for trucks and tractors.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lindy's, Inc., 3351 E. Olympia St., Los Angeles 46, Calif.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
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Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Truck and bus.)
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Powell Muffler Co., 2501 W. 24th St., Chicago 8, Ill.
Pratt Industries, Inc., 1600 S. Ashland Ave., Chicago 8, Ill.
Riker Mfg. Co., 4809 N. Detroit Ave., Toledo 12, Ohio. (For trucks and buses.)
Southern California Muffler Co., 11039 Washington Blvd., Culver City, Calif.
Tech Galvanizer Muffler, 679 Oakland Park Ave., Columbus, Ohio.
Walker Mfg. Co. of Wis., 1201 Michigan Ave., Racine, Wis. (Individually tuned.)

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(See also Chucks, Air, Tire Inflating)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich.
Amesco, Inc., 145 S. Monterey Ave., Villa Park, Ill.
Aro Equipment Corp., Bryan, Ohio.
Barmotte Products, Inc., 440 Peralta Ave., San Leandro, Calif.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Clements Mfg. Co., 6650 S. Narragansett Ave., Chicago, Ill.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Drugs Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Cal.
Dutton-Lamson Co., Mfg. Div., Hastings, Neb.
Electric Sprayit Div., Thomas Industries, Inc., 14th & Illinois Sts., Sheboygan, Wis.
Gilmour Mfg. Co., Center Ave., Somerset, Pa.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
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Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
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Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Superior Pneumatic & Mfg., Inc., 4755 Warner Rd., Cleveland 25, Ohio.
Thomas Industries, Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

NOZZLES, Fuel

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NUTS, Lock and Self-Locking

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Boss Bolt & Nut Co., 3493 W. 47th, Chicago 32, Ill.
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Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Delron Co., 5224 Southern Ave., South Gate, Calif. (Self-locking high temperature for manifolds, superchargers, etc.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co. (Reliance Spring Washer Div.), Massillon, Ohio.
Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N. J. (Self-locking.)
Greer Stop Nut Co., 2622 W. Flournoy St., Chicago 12, Ill.
Grip Nut Co., South Whitney, Ind.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
MacLean-Fogg Lock Nut Co., 5535 N. Walcott Ave., Chicago 40, Ill.
National Machine Products Co., 44225 Utica Rd., Utica, N. Y.
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio.
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Russell, Burdell & Ward Bolt & Nut Co., Port Chester, N. Y. (Licensees.)
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa. (Lock.)
Security Locknut Corp., 1800 N. 15th Ave., Melrose Park, Ill.
Shakeproof Div. of Illinois Tool Works, St. Charles Rd., Elgin, Ill.
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.
Standard Locknut & Lockwasher Co., 2250 Valley Ave., Indianapolis 18, Ind. (For ball and roller bearings.)
Standard Pressed Steel Co., Jenkintown, Pa. (Self-locking.)
Thompson-Bremer & Co., 520 N. Dearborn St., Chicago 10, Ill.
Tinnerman Products, Inc., 8700 Brookfield Rd., Cleveland 13, Ohio. (Self-locking.)
Townsend Co., New Brighton, Pa.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Walden-Kohinoor, Inc., 47-16 Austel Pl., Long Island City 1, N. Y.
Waterbury Pressed Metal Co., 300 Chase Ave., Waterbury, Conn.
Whitell-Higgins Co., P. O. Box 1613, Providence, R. I. (Lock, for ball and roller bearings.)

ODOMETERS

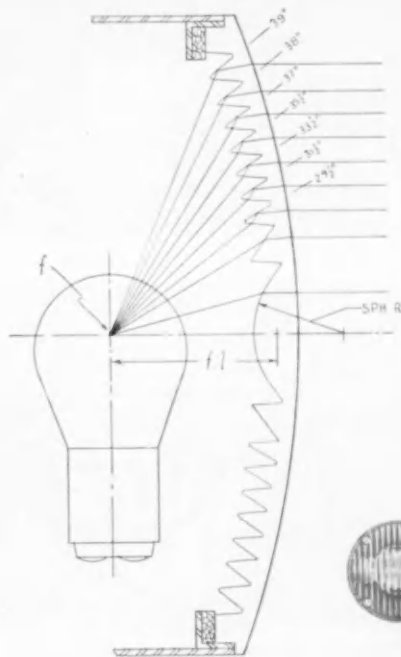
(See also Speedometer)

Barbour-Stockwell Co., 205 Broadway, Cambridge 39, Mass. (Hub.)
Knopf Instrument Co., 250 Culver Ave., Jersey City 5, N. J.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.

OIL ANALYSIS KITS

Gerin Corp., P. O. Drawer 653, Red Bank, N. J.
Shell Oil Co., 50 West 50th St., New York 20, N. Y.
Wicks Accessories Corp., Gastonia, N. C.

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In the world's most modern and fully equipped photometric laboratory, Signal-Stat engineers put their imaginative ability to work and design Signal-Stat lenses. Ingeniously, projected light rays are reflected in and refracted through the lens for the most powerful and effective distribution of beamed light patterns.

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Signal-Stat lenses help fill your need for lamps capable of emitting powerful signals in both dark of night and glare of sunlight—to the sides as well as straight ahead. They're lenses that won't warp or fade.

Whether it be an individual part such as Signal-Stat's lens or brass socket . . . whether it be our signal lamps, combination turn signal, stop tail lamps or the exclusive SIGFLARE® System (the most versatile signaling system available), YOU can be certain it has the best of everything . . . engineering skill—materials—workmanship. And, you can be certain YOU had a hand in its development.

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* SIGFLARE, at less cost, provides 4 Class A-Type 1 Directional Signals, 2 Stop Lights, 2 Tail Lights and 4 powerful lamps for disability warning—all with just 4 lamps and the patented Sigflare Switch.

Why big fleets buy more Ford Trucks than any other make

Low truck costs are just as important to big fleet users as they are to you. And, when fleet buyers favor Ford, you can be sure they've checked all cost factors. You can be sure they've found that *Ford trucks cost less.*

Shown here are just five of the *thousands* of representative business firms that have found Ford Short Stroke power means lower gas and oil consumption . . . that Ford's stronger chassis means longer truck life (insurance actuaries *prove* Ford trucks last longer) . . . that at trade-in time, Ford's traditionally high resale value means money saved!

So—from pickups to 65,000-lb. GCW BIG JOBS the big fleets are going Ford. Take a tip from the men who buy trucks every year! Your Ford Dealer will be glad to prove to you why Ford trucks cost less.



Fords last longer. "Our 160-Ford fleet covers 8,000 miles a day. And one '41 Ford is still going strong," says Western Truck Lines.



Ford means maneuverability. "Tight spots and heavy city traffic are no problems for our easy-handling Ford C-500's," says Commercial Motor Freight, Inc.

FORD TRUCKS COST LESS



Extra pay in the payload. "Our Ford T-800's carry 2,000 lb. more concrete than other comparable trucks," says Western Cement and Equipment Co.



Ford features extra-rugged chassis. "We need a truck that can take a real beating and keep on going . . . that's why we count on Ford," says Red Star Express.



Ford cuts maintenance costs. "If all our equipment was as tough as our 90 Ford F-600's, we'd have no maintenance problems," says Adley Express Co.

...less to own...less to run...last longer, too!

oils and lubricants to paints

CCJ'S PRODUCT DIRECTORY

OILS, CRANKCASE, ADDITIVES, See Compounds, Crankcase, Sludge Removing

OILS AND LUBRICANTS, Engine and Chassis

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Cities Service Oil Co., 60 Wall Tower, New York, N. Y.
California Co., Denver 1, Colo.
California Oil Co., Perth Amboy, N. J.
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Fiske Brothers Refining Co., Lubriplate Div., Newark 5, N. J.
Freedom-Valvoline Oil Co., Freedom, Pa.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa. (Also motor flush.)
Kendall Refining Co., 77 N. Kendall St., Bradford, Pa.
Lion Oil Co., El Dorado, Ark.
Lubrication Engineering, Inc., Fort Worth, Texas.
Lubriplate Div., Fiske Brothers Refining Co., Newark 5, N. J.
Mac Millan Petroleum Corp., 530 W. 6th St., Los Angeles 13, Calif.
Mid-Continent Petroleum Corp., P. O. Box 381, Tulsa 2, Okla.
Moly Motor Products Corp., 1155 Broadway, New York, N. Y.
Ohio Oil Co., Findlay, Ohio.
Pennsylvania Refining Co., 2686 Liabon Rd., Cleveland 4, Ohio.
Pennzoil Co., Oil City, Pa.
Phillips Petroleum Co., Bartlesville, Okla.
Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.
Quaker State Oil Refining Co., Oil City, Pa.
Shell Oil Co., 100 Bush St., San Francisco 6, Calif.
Shell Oil Co., 60 W. 50th St., New York, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony Mobil Oil Co., Socony Mobil Bldg., New York, N. Y.
Sonneborn Sons, L., 300 Fourth Ave., Amalie Div., New York.
Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago, Ill.
Standard Oil Co. of Texas, El Paso, Texas.
Sun Oil Co., 1608 Walnut St., Philadelphia, Pa.
Texas Co., 135 E. 42nd St., New York, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.
Union Oil Co. of Calif., Union Oil Bldg., Los Angeles 17, Calif.
Valvoline Oil Co., Freedom, Pa.
Warren Refining & Chemical Co., Cleveland 18, Ohio.
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.
Wolf's Head Oil Refining Co., Oil City, Pa.

OIL CANS, See Cans, Oiling

OIL CHANGERS, See Drainers, Crankcase Oil

OIL FILTERS, See Filters, Oil

OIL AND GREASE ABSORBENTS (Floor), See Absorbents, Oil & Grease (Floor)

OIL RECLAIMERS, See Reclaimers, Crankcase Oil

OIL RETAINING RINGS & SEALS, See Retainers, Oil & Grease

OIL TANKS, See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)

OIL TESTING INSTRUMENTS, See Viscosimeters

OILS, PENETRATING, See Rust Preventatives

OILERS, UPPER CYLINDER, See Lubricators, Upper Cylinder

OILS, Upper Cylinder

Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich.

Actane Chemical Co., 3617 Haverford Ave., Philadelphia 4, Pa.

Alox Corp., Buffalo Ave., & Iriquois St., Niagara Falls, N. Y.

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.

Bardahl Mfg. Corp., 1400 P. 52nd St., Seattle 7, Wash.

Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.

Bell Laboratory, Inc., 2421 Kilgore St., Orlando, Fla.

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.

Carbide & Carbon Chemicals Corp., 39 E. 42nd St., New York 17, N. Y.

Castorol Products, Inc., 145 Alexander St., Yonkers 2, N. Y.

Celco Corp., 110 E. 42nd St., New York 17, N. Y.

Champion Products, Inc., P. O. Box 291, Stephenville, Texas.

Cristy Chemical Corp., 21 Putnam Lane, Worcester 4, Mass.

Curran Corp., S. Canal St., Lawrence, Mass.

Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.

Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.

Electro Products Co., 445 E. 189th St., New York 58, N. Y.

Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.

Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.

Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.

Feenom Laboratories, 521 Marion E. Taylor Bldg., Louisville 2, Ky.

Friction Proof Oil Corp., 200 Fifth Ave., New York 10, N. Y.

Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.

Grafo Colloids Corp., Grafco Bldg., 310 Wilkes Place, Sharon, Pa.

Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.

Gunk Chicago Co., 3447 W. Madison St., Chicago 24, Ill.

Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.

Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.

Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.

International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.

Kano Laboratories, 1000 S. Thompson Lane, Nashville 11, Tenn.

Lubaid Co., 155 E. Kilborn St., Milwaukee 1, Wis.

Lubri-Gas International, Inc., 221 N. La Salle St., Chicago 1, Ill.

Magnus Chemical Co., 185 South Ave., Garwood, N. J.

Mergraf Oil Products Co., P. O. Box 95, Northville, Mich.

National Refining Co., 1808 Standard Bldg., Cleveland 1, Ohio.

Octane Chemical Co., 3617 Haverford Ave., Philadelphia 4, Pa.

Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.

Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.

Protektol Corp., 601 W. 26th St., New York 1, N. Y.

Purfex Mfg. Co., Box 118, Collegeville, Pa.

Pyroil Co., 122 Main St., La Crosse, Wis.

Radiator Specialty Co., 1400 W. Ind. Blvd., Charlotte 1, N. C.

Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.

Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.

Rust Master Chemical Corp., 50 Creighton St., Boston, Mass.

Service Supply Co., 1115 Seventh St., Denver 2, Colo.

Shaler Co., Waupun, Wis.

Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y.

Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill.

Stewart-Warner Corp., Alemite Corp., 1826 Diversey Pkwy., Chicago 14, Ill.

Swan-Finch Oil Co., 338 Hudson St., Hackensack, N. J.

Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 16, Mo.

United States Aviox Co., 1350 Maple St., Niles, Mich.

V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

Warehouse Distributors Co., 3810 N. 19th St., Phila. 40, Pa.

Warren Refining & Chemical Co., 750 Prospect Ave., Cleveland 15, Ohio.

Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y.

Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.

White & Bagley Co., 100 Foster St., Worcester, Mass.

Wilbur & Williams & Co., 130 Lincoln St., Brighton, Mass.

Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.

Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

OPENERS, Bus Door

Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.

Consolidated Metal Products Corp., 413 N. Pearl St., Albany, N. Y. (Pneumatic electric and hydraulic.)

Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio. (Manual.)

Midland Steel Products Co., Power Brake Div., 3641 E. Milwaukee Ave., Detroit 11, Mich. (Air and electro-pneumatic.)

National Pneumatic Co., 125 Amory St., Boston 19, Mass.

PACKERS, Bearing

Aro Equipment Corp., Bryan, Ohio.

Bennett-Feragen, 1408 Jerome St., Miles, Mich.

Gray Co., 64 11th Ave., N. E. Minneapolis 13, Minn.

Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.

Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill.

Turk Co., Wm., 11070 S. Alameda St., Lynwood, Calif.

PADS, Pedal

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.

Doan Mfg. Corp., 1761 London Rd., Cleveland 12, Ohio.

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.

Kravex Mfg. Corp., 273 Van Sinderen Ave., Brooklyn 7, N. Y.

Monarch Rubber Co., Hartville, Ohio.

Ohio Rubber Co., 300 Ben Hur Ave., Wiloughby, Ohio.

PAINT MASKING, See Masking, Liquid and Tape

PAINT SPRAY BOOTHS, See Booths, Spraying (Paint and Varnish)

PAINT SPRAYERS, See Sprayers, Paint

PAINT REMOVERS, See Removers, Paint Enamel and Varnish

PAINTS, See Enamels; also Lacquer

PAINTS, Acid-Resisting

Ace Laboratories, 1614 Cartaret St., Lakewood, Ohio.

Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn.

Hock Paint, Inc., Box 190, Phoenixville, Pa.

Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)

Perolin Co., 10 E. 40th St., New York 16, N. Y.

Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.

Quigley Co., 527 Fifth Ave., New York 17, N. Y.

Sauerisen Cements Co., Sharpsburg Sta., Pittsburgh 15, Pa.

Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

Stonhard Co., 1306 Spring Garden St., Philadelphia 23, Pa.

Vita-Var Corp., 46 Albert Ave., Newark, N. J.

PAINTS, Alkali-Resisting

Ace Laboratories, 1614 Cartaret St., Lakewood, Ohio.

Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)

Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.

Quigley Co., 527 Fifth Ave., New York 17, N. Y.

Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

Vita-Var Corp., 46 Albert Ave., Newark, N. J.

Clark Equipment Company chooses ...

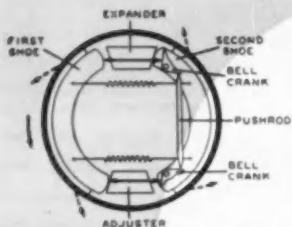
**FAWICK
(GIRLING)**

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BRAKES

The new Clark ND Series all-purpose trailer axles feature Fawick (Girling) 2LS Brakes.

how 2LS/1P brake works



When brakes are applied, expander forces toe of First Shoe into full contact with the drum, making it a Leading Shoe. The expander simultaneously moves the upper end of the Second Shoe, while the toe is moved into full contact through a series of bell cranks and push rods. This makes the Second Shoe also a leading shoe, resulting in maximum braking efficiency. In reverse, the Second Shoe is also a Leading Shoe.



For further technical information on Fawick (Girling) 2LS Brakes, write today for Bulletin BD-12 "Two Leading Shoe Brakes"

for new light-weight trailer axles

Advanced "Two Leading Shoe" design provides:

greater torque capacity than same size cam brakes plus highest braking efficiency in both forward and reverse.

weight savings—2LS Brake with actuation is 20% lighter than same size cam brake.

fewer lining replacements through superior wear pattern.

direct actuation—air*, vacuum or hydraulic—no cam shafts or slack adjusters.

optional integral parking brake

smaller volumetric requirements for actuation mean longer compressor life, more applications from standard reservoirs.

*Fawick  Air Cylinder

FAWICK BRAKE DIVISION
CORPORATION

C L E V E L A N D • O H I O

Now "making power behave" with automotive brakes

paints to parts

CCJ'S PRODUCT DIRECTORY

PAINTS, Aluminum and Bronze

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa. (Pigments for aluminum paint.)
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
 Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
 Battenfield Grease & Oil Corp., 3148 Roanoke Rd., Kansas City 8, Okla. (Aluminum.)
 Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
 Forbes Finishes Div., Pittsburgh Plate Glass Co., 2800 W. 148th St., Cleveland 11, Ohio. (Aluminum.)
 Frost Paint & Oil Corp., 1200 Tyler St., N. E., Minneapolis 13, Minn. (Aluminum.)
 Hack Paint & Chemical Works, Inc., Box 190, Phoenixville, Pa.
 Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.
 Interstate Enamel & Varnish Co., 323 W. 15th St., Indianapolis, Ind.
 Modene Paint Co., 305 Eastern Ave., Chelsea 60, Mass.
 Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. (Aluminum.)
 Plastic-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio. (Aluminum.)
 Reynolds Metals Co., 3rd and Grace Sts., Richmond 19, Va. (Aluminum pigment powders and paste.)
 Sheffield Bronze Paint Corp., 17814 Waterloo Rd., Cleveland 19, Ohio.
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

PANELS, Plywood

Evans Products Co., Dept. Q-11, Plymouth, Mich.
 Georgia-Pacific Plywood Co., 400 N. Capitol Way, Olympia, Wash.
 Harbor Plywood Corp., Box 940, Aberdeen, Wash. (Douglas fir.)
 Haskellite Mfg. Corp., 701 Ann St. N.W., Grand Rapids 2, Mich. (Laminated, resin-faced, metal-covered.)
 Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Metal covered.)
 Technical Ply-Woods Sales, 228 N. La Salle St., Chicago 1, Ill.
 United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., New York 18, N. Y.

PANELS, STEEL. See Steel, Sheet, and Body Parts, Pre-Shaped

PARTS, Brake

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
 Aero Mfg. & Machining Co., 2724 Ninth Ave., Muskegon Heights, Mich. (Hydraulic.)
 Anderson Co., O. L., 1347 E. Fort St., Detroit 2, Mich.
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
 Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (Hand control for vacuum braking.)
 Bendix Westinghouse Automotive Air Brake Co., 901 Cleveland Road, Elmira, Ohio. (Air.)
 Berg Mfg. & Sales Co., Inc., 1712-14 S. Michigan Blvd., Chicago 16, Ill.
 Brake Parts Specialty, 1914 W. Washington Blvd., Los Angeles 18, Calif. (Wheel cup expanders.)
 Els Automotive Corp., Middletown, Conn. (Hydraulic and mechanical; also master and wheel cylinders.)
 Fawick Corp., Fawick Brake Div., 5885 Lorain Ave., Cleveland 2, Ohio. (Emergency truck.)
 General Tire & Rubber Co., Industrial Prod. Div., Wabash, Ind. (Hydraulic.)
 Goshen Rubber Co., 609 E. Iowa St., Goshen, Ind. (Hydraulic cups and boots.)
 Hydraulic Specialties Co., 819 E. Ferry St., Buffalo 11, N. Y. (Hydraulic pressure limiting valves.)
 Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis.
 Judsen Rubber Works, Inc., 4107 W. Kinzie St., Chicago 24, Ill. (Hydraulic rubber.)
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Vacuum power brake valves and chambers.)
 Keystone Engineering & Mfg. Co., Corry, Pa.

Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)
 Loeck & Co., R. J., 343 N. Gay St., Baltimore, Md. (Cylinder cups.)
 Lorraine Mfg. Corp., 50 W. Hunter Ave., Maywood, N. J. (Hydraulic brake rubber cups, boots; also hydraulic valves.)
 Master Parts Div. of Airtex Products, Inc., Fairfield, Ill. (Hydraulic master and wheel cylinders.)
 Midland Steel Products Co., Power Brake Div., 2641 E. Milwaukee Ave., Detroit 11, Mich. (Air and vacuum conversion valve kits.)
 Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
 Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.
 Moraine Products, Div. of General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. (Wheel and master cylinders.)
 Motive Equipment Mfrs., Inc., 6253 W. Roosevelt Rd., Chicago 50, Ill. (Hydraulic master wheel cylinder assemblies.)
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Hydraulic.)
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Hydraulic.)
 Otto Items, Inc., 1200 Reeco Ave., Kirkwood 22, Mo. (Hydraulic brake, master and wheel cylinders.)
 Pacific Div., Bendix Aviation Corp., 11600 Sherman Way, North Hollywood, Calif. (Hydraulic master cylinder.)
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 38, N. Y.
 Power Brake Equipment Co., 1632 S.E., 11th Ave., Portland 14, Ore.
 Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
 Seale, Homer T., 5330 Alhambra Ave., Los Angeles 32, Cal.
 Supco Div., Lisle Corp., 805 E. Main St., Clarinda, Iowa. (Master and wheel cylinders, etc.)
 Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J. (Diaphragms.)
 United Metal Craft Co., 800 Lowell St., Ypsilanti, Mich. (Power brake tanks.)
 United Motor Service General Motors Bldg., Detroit 2, Mich.
 United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (Cylinders.)
 Var-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)
 Velvac, Inc., 5330 W. Pierce St., Milwaukee 15, Wis. (Vacuum power and air, for trucks and trailers.)
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Master cylinders; also air conversion kits.)
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. (Hydraulic.)

PARTS, CARBURETOR. See Carburetor Parts

PARTS, Clutch

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill. (Pressure assembly component parts.)
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. (Forks.)
 Automotive Research & Mfg. Co., 1085 Iris Pl., Westbury, N. Y.
 Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (For assemblies, etc.)
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Evoe Products Co., 160 W. 62nd St., New York 23, N. Y.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 Lipe-Rollway Corp., 896 Emerson Ave., Syracuse 4, N. Y.
 Merit Products Co., 121 W. Florence Ave., Los Angeles 3, Calif. (Sleeves.)
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
 Perfection Gear Co., 162nd St. & Vincennes Ave., Harvey, Ill. (Clutch cover assembly parts.)
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
 Rockford Clutch Div. Borg-Warner Corp., 1319-18th Ave., Rockford, Ill.
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

PARTS, DISTRIBUTOR. See Parts, Magneto, Coil and Distributor

PARTS, Front End Suspension

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
 Bashian & Sons Co., Henry 40391 Grand River Ave., Farmington, Mich.
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Ertel Products Corp., Div. of Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.
 Hershey Products, Inc., Derby 2, Conn.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.
 McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.
 Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo. (Knee action coil springs.)
 Moog Industries, 6550 Easton Ave., St. Louis 14, Mo.
 Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
 Pressed Metals of America, Inc., Port Huron, Mich. (Distributors to replacement trade, McQuay-Norris Mfg. Co., St. Louis, Mo.; Thompson Products, Inc., Cleveland, Ohio; Clevite, Inc., Cleveland, Ohio.)
 Republic Engrg & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.
 Rowland, Inc., William & Harvey, 1414 Fairmount Ave., Philadelphia 30, Pa.
 Saginaw Steering Gear, Div. of General Motors Corp., 3900 Holland Rd., Saginaw, Mich.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
 Toledo Steel Products Co., 3390 Summit St., Toledo 11, Ohio.

PARTS, Fuel Pump

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind. (Push rods.)
 Airtex Automotive Div. of Airtex Products, Inc., Fairfield, Ill.
 Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
 American Motor Products Co., Fond du Lac, Wis.
 Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.
 Kem Mfg. Co., 20-21 Dagaraw Rd., Fair Lawn, N. J.
 Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.
 Mica Insulator Co., Broadway, Schenectady, N. Y. (Diaphragms.)
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
 P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. (Diaphragms, etc.)
 Simmons Mfg. Co., Ashland, Ohio.
 United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For A. C. pumps.)
 Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill.

PARTS, Generator

International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
 V-J Industries, Inc., 720 E. Washington St., Indianapolis, Ind.
 Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
 Van Berger & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill.

PARTS, LIST. See List, Parts



NYLON CORD TRUCK TIRES SAVE YOU MONEY 5 WAYS

1. NYLON MEANS MORE OVER-ALL MILEAGE. Tough nylon cords cut down tire failures, give you higher average tire mileage. Nylon virtually eliminates cord failures from flexing, moisture, heat and impact.

2. NYLON MEANS FEWER ROAD DELAYS. Dependable nylon cord tires help you maintain strict schedules and on-time deliveries, save drivers' time and service costs.

3. NYLON MEANS MORE RETREADS. Because their casings are tougher, nylon cord tires can be retreaded again and again. And every retread stretches your tire dollars . . . brings down costs per mile.

4. NYLON MEANS SAVINGS ON TIRE REPAIRS. By guarding against every major cause of tire failure—flexing, moisture, heat and impact—nylon cords save you service charges and tire-repair costs.

5. NYLON MEANS LESS TIRE INVENTORY. With nylon, you can reduce your tire reserve . . . free your capital for other business needs. Fewer failures and more mileage per tire mean you need fewer spares on hand . . . fewer tires per year.

NYLON CAN CUT YOUR YEARLY TIRE COSTS. You'll get more miles per dollar, more profit per load . . . when your trucks roll on nylon cord tires. Ask your dealer about nylon cord tires today. Du Pont makes the tough, long-lasting yarns that are used by rubber companies to make the tires that give extra protection against tire failure. Du Pont does not make tires.



BETTER THINGS FOR BETTER LIVING
... THROUGH CHEMISTRY



NOW, IN PASSENGER-CAR TIRES, TOO . . . THE STRENGTH AND TOUGHNESS OF NYLON . . . FOR UTMOST SAFETY, SUREST PROTECTION AGAINST TIRE TROUBLE

parts to pipes

CCJ'S PRODUCT DIRECTORY

PARTS, Ignition

(See also Coils, Condensers, Distributors, Points (Ignition))

American Hard Rubber Co., 93 Worth St., New York 18, N. Y.

American Motor Products Co., Fond du Lac, Wis. (Distributor rotors.)

Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo. (Coil and distributor.)

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.

D.S.M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.

Echlin Mfg. Co., 220 East St., New Haven 5, Conn. (Coil and distributor.)

Electric Auto-Lite Co., Parts & Service Div., Toledo 1, Ohio.

F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Distributor caps and rotors.)

Guaranteed Parts Co., Seneca Falls, N. Y. (Rotors.)

Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.

Keystone Carbon Co., 1935 State St., St. Marys, Pa.

M D Parts Mfg. Co., 4395 Olympic Blvd., Los Angeles, Calif. (Distributor caps and rotors.)

Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.

Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Magneto.)

National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Coil and distributor.)

Niehoff & Co., C. E., 4925 Lawrence Ave., Chicago, Ill.

P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.

Paragon Products Corp., 140 Astor St., Newark 5, N. J. "Vulcan." (Distributor plates, caps, rotors, etc., sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)

Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.

Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)

Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.

Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill. (Distributor caps and rotors.)

Sorenson Mfg. Co., P. 32-31 57th St., Woodside 77, N. Y. (Distributor heads and rotors.)

Specialty Insulation Mfg. Co., Hoosick Falls, N. Y. (Distributor caps.)

Standard Motor Products, Inc., 87-18 Northern Blvd., Long Island City, L. I., N. Y.

Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J. (Caps and rotors.)

Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y. (Distributor.)

Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Distributor caps and rotors.)

Whittaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Distributor.)

PARTS, Replacement

Allied Motor Parts Co., Detroit 1, Mich.

Chrysler Corp., Parts Division, 7900 Joseph Campau Ave., Detroit 31, Mich.

Ford Motor Co., 3900 Schaefer Rd., Dearborn, Mich.

United Motors Service, General Motors Building, Detroit 2, Mich.

PARTS, Starting Motor Drive

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.

American Motor Products Co., Fond du Lac, Wis.

Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y. (Bolts and washers.)

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.

Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y.

F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.

Ford Motor Co., Dearborn, Mich.

Guaranteed Parts Co., Seneca Falls, N. Y.

International Products & Mfg. Co., 1462 S. Michigan Ave., Chicago 5, Ill.

Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.

Keystone Carbon Co., 1935 State St., St. Marys, Pa.

Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio. (Bolts.)

Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.

Lock & Co., R. J., 345 N. Gay St., Baltimore, Md. (Screws.)

Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.

Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.

Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)

Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. (Springs.)

Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.

Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. (Springs, etc.)

United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio. (Screws and washers.)

Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

Van Bergen & Greener, Inc., 1619 N. Hoynes Ave., Chicago 47, Ill.

Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y. (Springs, bolts and washers.)

PINS, King

Aircraft & Automotive Prods., Inc., 2501 S. West St., Wichita, Kan. (Bus.)

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.

Austin Trailer Equipment Co., 1145 W. Western Ave., Muskegon, Mich. (Trailer.)

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.

Bashian & Sons Co., Henry 40391 Grand River Ave., Farmington, Mich.

Bohn Aluminum & Brass Corp., 1400 Lafayette Blvd., Detroit 26, Mich.

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.

Cleveland Cap Screw Co., 2917 E. 79th St., Cleveland 4, Ohio.

Elgin Machine Works, 412 N. State St., Elgin, Ill. (Assemblies.)

Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.

Hershey Products, Inc., Automotive Parts Div., Derby 2, Conn.

Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis.

Kings County Centerless Grinding Co., 555 36th St., Union City, N. J.

Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.

Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.

McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.

Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.

Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.

Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.

Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.

Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.

Superior Machine Tool Co., 329 E. Firmin St., Kokomo, Ind.

Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.

Trayer Products, Inc., E. Clinton St., Elmira, N. Y.

Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

Wohler Corp., 700 E. Grand River Ave., Lansing 5, Mich.

PINS, King, Trailer

Miller Industries, 213 E. Cortland St., Jackson, Mich.

PINS, Piston

Allied Motor Parts Co., Detroit 1, Mich.

American Hammond Automotive Replacement Div., 2001 Sanford St., Muskegon, Mich.

Aircraft & Automotive Prods., 2501 S. West St., Wichita, Kan.

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.

American Hammered Automotive Replacement Div. of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.

Bohn Aluminum & Brass Corp., 1400 Lafayette Blvd., Detroit 26, Mich.

Brown Corp., 313 Bellevue Ave., Syracuse, N. Y.

Burgess-Norton Mfg. Co., 758 Peyton St., Geneva, Ill.

Elgin Machine Works, 412 N. State St., Elgin, Ill.

Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.

Ertel Products Corp., Div. of Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.

Kings County Centerless Grinding Co., 555 36th St., Union City, N. J.

Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.

McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.

Marquette Metal Products Div. Curtiss-Wright, 1145 Gateway Drive, Cleveland 10, Ohio.

Merit Products Co., 121 W. Florence Ave., Los Angeles 3, Calif.

Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.

Nylen Products, Inc., U. S. 12, Bridgman, Mich.

Ohio Platen Co., 5342 Hamilton Ave., Cleveland 14, Ohio.

Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich.

Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.

Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.

Simplex Products Corp., 3830 Kelly Ave., Cleveland, Ohio.

Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.

Triplex Corp. of America, P. O. Box 666, Pueblo, Colo.

White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

PIPES, Tail and Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa.

Arvin Industries, Inc., 15th St. & Big Four E. R., Columbus, Ind.

De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.

Douglass Muffler Mfg. Co., 5636 E. Shull St., Bell Gardens, Calif.

Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Bendable.)

Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. (Bendable.)

Formed Tubes, Inc., S. Prairie & Albert Sts., Sturgis, Mich.

Goerlich's, 619 Smith St., Toledo 1, Ohio.

Haviland Co., Arnold, Defiance, Ohio. (Also exhaust.)

International Parts Corp., 11th & State Sts., Chicago 5, Ill.

Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.

McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.

Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Also bendable.)

Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.

Ohio Parts, Inc., 307 Perry St., Defiance, Ohio.

Porter Muffler Mfg. Co., 11820 W. Olympia Blvd., Los Angeles 64, Calif.

Powell Muffler Co., 2501 W. 24th St., Chicago, Ill.

Pratt Industries, Inc., 1600 S. Ashland Ave., Chicago 8, Ill.

Riker Mfg., 4809 N. Detroit Ave., Toledo 12, Ohio. (Tail.)

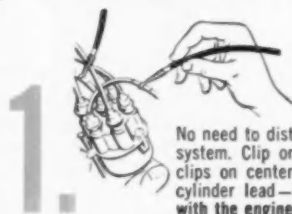
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.

Tube Products Corp., 320 N. 2nd St., Tipp City, Ohio.

Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.

Western Piping & Engrg. Co., 123 Kansas St., San Francisco 3, Calif.

DON'T WASTE TIME



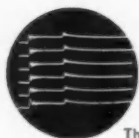
1. SNAP ON SIGNALCLIPS

No need to disturb a single wire in ignition system. Clip on exclusive Du Mont Signal-clips on center distributor lead and No. 1 cylinder lead—right over insulation—even with the engine running.



2. TURN ON *EnginScope*

No dial-doodling here! In seconds the COMPLETE picture of ignition system is on the EnginScope screen. No need to change a single connection, twist a single knob, or dismantle a single part during the entire analysis!



3. TAKE A LOOK . . . PROBLEM SOLVED!

This is the easy part . . . each cylinder is shown on a separate line . . . no bothersome "counting off" to locate trouble—no difficult interpretation. Comparison feature of screen makes it easy to find flashing points, reversed polarity at coil, corroded distributor castle, too much gap at rotor tip and many other hard-to-spot ignition troubles.

**ASK YOUR JOBBER OR WRITE
FOR COMPLETE DETAILS...**



Get a
Du Mont TV-Type
*EnginScope**



ONLY
\$725⁰⁰

The talk of the industry — even your customers have read about the new Du Mont TV-Type EnginScope in newspapers and magazines from coast-to-coast.

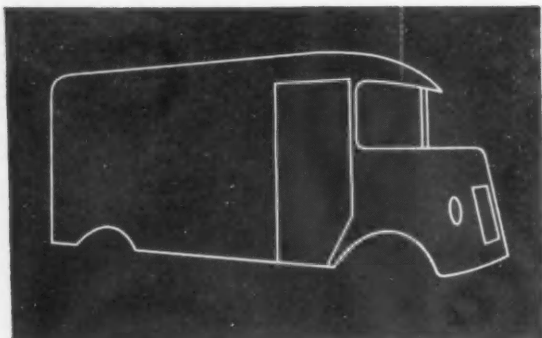
The Du Mont TV-Type EnginScope helps you do better servicing in a fraction of the time normally required. The result is happier customers and far more profits for you.

There is no other instrument like the Du Mont TV-Type EnginScope — compare, and see for yourself!

DU MONT®

ALLEN B. DU MONT LABORATORIES, INC.,
760 Bloomfield Avenue, Clifton, N. J.

*Trade Mark



"In a million-mile Kaiser Aluminum



This handsome, durable truck body made of Kaiser Aluminum was sold by J. B. E. Olson Corp., New York City, designed and fabricated for Olson by Aerobilt Bodies, Inc., subsidiary of Grumman Aircraft.

MILLION-MILE COST COMPARISON

ALUMINUM-BODY UNITS				HEAVY-BODY UNITS			
Truck No.	Age in Miles	Miles Per Gal.	Cost Per Mile	Truck No.	Age in Miles	Miles Per Gal.	Cost Per Mile
A- 1	109,000	10.1	.091	S- 1	112,000	7.6	.093
A- 2	113,000	9.5	.090	S- 2	98,000	7.8	.103
A- 3	100,000	9.4	.105	S- 3	67,000	7.6	.125
A- 4	103,000	10.3	.099	S- 4	92,000	9.4	.098
A- 5	103,000	11.5	.093	S- 5	90,000	8.1	.104
A- 6	132,000	11.0	.079	S- 6	118,000	8.7	.088
A- 7	106,000	11.3	.084	S- 7	102,000	9.5	.091
A- 8	126,000	10.5	.074	S- 8	71,000	8.2	.119
A- 9	93,000	10.7	.103	S- 9	109,000	7.6	.096
A-10	100,000	.112	.085	S-10	63,000	7.1	.150
A-11	111,000	12.2	.071	S-11	81,000	7.8	.115
	1,196,000	10.8	.088		1,003,000	8.1	.104

These actual costs used with the permission of Dreikorn's Bakery, Inc., a member of the Quality Bakers of America.

This cost comparison of Dreikorn's Bakery's two types of delivery bodies is based on detailed cost figures for each truck. Actual mileage of each truck was used in determining the miles per gallon and cost per mile; comparison gives nearest thousand figure.

Cost-per-mile figures include all operating and maintenance expenses depreciation, insurance, license fees undistributed time and other fixed and overhead charges.

test, truck bodies made of cut our operating cost over 15%"

says Joe Hohol, Fleet Supervisor
Dreikorn's Bakery, Inc., Holyoke, Mass.



"An analysis based on our million-mile cost comparison showed that over-all operating cost on our fleet of multi-stop route trucks was \$0.104 per mile for steel-bodied trucks.

"The cost for trucks with aluminum bodies was only \$0.088 per mile. A cost reduction of over 15% or 1½¢ per mile.

"If we were to project this over 200,000 miles of operation per truck, aluminum bodies would save us over \$3600.00 per truck. This would be more than an initial purchase price of the entire truck.

"The use of aluminum bodies also makes it possible for us to get greater body-metal thickness so we save the cost of frequent denting repairs. Aluminum is rustproof, so painting maintenance is minimized.

"There's less driver fatigue, too. Trucks handle easier. Doors are easier to open and close. That's important on multi-stop service. And the aluminum bodies have greater inside width so we can handle more loaves of bread per truck."

Let a Kaiser Aluminum engineer show you how you can get more economical operation, larger payloads, and less maintenance by switching to bodies made with light, strong Kaiser Aluminum.

Call the Kaiser Aluminum sales office listed in your telephone directory. Kaiser Aluminum & Chemical Sales, Inc., General Sales Office, Palmolive Bldg., Chicago 11, Illinois; Executive Office, Kaiser Bldg., Oakland 12, California.

See "THE KAISER ALUMINUM HOUR." Alternate Tuesdays,
NBC Network. Consult your local TV listing.

INCREASE YOUR PROFIT MARGIN WITH

Kaiser Aluminum

A member of the Truck-Trailer Manufacturers Association

pistons to plates

PISTON EXPANDERS, See Expanders, Piston Skirt

PISTON GRINDING MACHINES, See Machines, Piston Turning and Grinding

PISTON PINS, See Pins, Piston

PISTON RINGS, See Rings, Piston

PISTON RING COMPRESSOR, See Tools, Piston Ring Compressing

PISTON RING EXPANDERS, See Expanders, Piston Ring

PISTONS

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded and cast iron ring carriers.)
Allied Motor Parts Co., Detroit 1, Mich.
Aluminum Alloys Corp., 6650 Walton St., Detroit 10, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
American Hammered Automotive Replacement Div. of Sealed Power Corp., Accuralite Div., 2061 Sanford St., Muskegon, Mich.
Arrow Head Steel Products Co., Howell, Mich. (Aluminum alloy, vanasil and cast iron.)
Badger Mfg. Co., 1505 City Court, Marinette, Wis. (Aluminum alloy.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Continental Motors Corp., Muskegon 82, Mich.
Edebrock Equipment Co., 4921 W. Jefferson Blvd., Los Angeles 16, Calif. (Oversize.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind. (Aluminum and cast iron.)
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Vanasil, aluminum alloy and semi-steel.)
Hi-Duty Products Corp., 1801 S. Hope St., Los Angeles 15, Calif. (Aluminum.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products, Inc., U. S. 12, Bridgman, Mich. (Aluminum and gray iron.)
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio. (Aluminum, cast iron, and steel insert aluminum.)
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Sterling Aluminum Products, Inc., 2600 N. Third St., St. Charles, Mo.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Aluminum alloy.)
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.
Triplex Corp. of America, P. O. Box 466, Pueblo, Colo. (Aluminum.)
Tsungani Piston Co., 625 E. 11th St., Tacoma, Wash.
United Engine & Machine Co., 310 Preda St., San Leandro, Calif.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wisconsin Machinery & Mfg. Co., S. 60th St., & Beloit Rd., Milwaukee 14, Wis.
Zollner Machine Works, Fort Wayne, Ind. (Aluminum alloy.)

PLASTICS, Molded

(Phenolic, Urea, Cellulose Acetate, Polystyrene, etc.)

Amos Molded Plastics Div. Amos-Thompson Co., 211 Ward St., Edinburg, Ind.
Armored Plastics Co., Lint & Dura Ave., Toledo 12, Ohio.
Artmor Plastics Corp., 1008 Oldtown Rd., Cumberland, Md. (Side seat panels, door liners, kick plates, etc.)
Bakelite Corp., 30 E. 42nd St., New York 17, N. Y.
Bangor Plastics, Inc., Bangor, Mich.
Brilhart Plastics Corp., Old Country Rd., Mineola, N. Y.
Chicago Molded Products Corp., 1049 N. Kolmar Ave., Chicago 51, Ill. (Custom molders of nylon.)
Colt's Plastics Co., 17 Van Dyke Ave., Hartford 15, Conn.
Continental-Diamond Fibre Div., Budd Co., Newark 10, Del.
Continental Plastics Corp., 2934 W. Lake St., Chicago 12, Ill.
Crane Packing Co., 6435 Oakton St., Morton Grove, Ill. (Teflon.)

Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.
Dimco-Gray Co., 207 E. Sixth St., Dayton 2, Ohio.
du Pont de Nemours & Co., E. I., Polychemicals Dept., Plastic Section, Wilmington 98, Del.
Durez Plastics Div., Hooker Electrochemical Co., 1910 Walck Rd., North Tonawanda, N. Y. (Phenolic.)
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Felsenthal & Sons, Inc., G., 4100 W. Grand Ave., Chicago 51, Ill. (Acrylic, polyethylene, nylon acetate and butyrate.)
Formica Co., 4614 Spring Grove Ave., Cincinnati 32, Ohio. (Phenolic.)
Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del. (Bakelite.)
Geanga Industries Co., Old State Rd., Middlefield, Ohio.
General Electric Co., Chemical Div., 1 Plastics Ave., Pittsfield, Mass.
General Industries Co., Olive St., Elyria, Ohio.
General Tire & Rubber Co., Industrial Products Div., Wabash, Ind. (Fiberglass.)
Globe Imperial Corp., 2025 Kishwaukee St., Rockford, Ill.
Goodyear Aircraft Corp., 1210 Maasillon Rd., Akron 15, Ohio.
Gries Reproducer Corp., Beechwood Ave. & Second St., New Rochelle, N. Y. (Thermoplastic and nylon.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Gulliksen Mfg. Co., Wm. M., Newton Lower Falls 62, Mass. (Malamines & fiberglass miamines.)
Hooker Electrochemical Co., 4746 Buffalo Ave., Niagara Falls, N. Y.
Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill. (Polyester.)
Industrial Plastic Co., 1526 W. 166th St., Gardena, Calif.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton, Ohio.
Kish Industries, Inc., 1301 N. Turner St., Lansing, Mich. (Epoxy.)
Kurz-Kasch, Inc., 1415 S. Broadway, Dayton 1, Ohio.
Metal Specialty Co., Este Ave. & B. & O. R. R., Cincinnati 32, Ohio. (Injection-thermoplastic.)
Molded Insulation Co., 335 E. Price St., Philadelphia 44, Pa.
Molded Products Div. of Admiral Corp., P. O. Box 338 West, Chicago, Ill. (Phenolic, urea, and reinforced fiber glass.)
Norton Laboratories, Inc., 520 Mill St., Lockport, N. Y.
Panelyte Div. St. Regis Paper Co., 230 Park Ave., New York 17, N. Y. (Polystyrene, acrylic, polyethylene, etc.)
Plasticite Corp., 327 Rider Ave., New York 51, N. Y. (To order.)
Quinn-Berry Corp., 2601 W. 12th St., Erie, Pa. (Cellulose acetate, polystyrene, nylon, etc.)
Renau Plastics, Inc., 3179 S. Cedar St., Lansing, Mich.
Stimaonite Div. of Elastic Stop Nut Corp. of America, 3445 N. Kimball Ave., Chicago 18, Ill. (Acrylic, nylon & polyethylene.)
Stokes Molded Products, Taylor & Webster Sts., Trenton 4, N. J.
Superior Plastics, Inc., 426 N. Oakley Blvd., Chicago 12, Ill. (Cellulose acetate, butyrate, vinylite, ethylcellulose, polystyrene, methylmethacrylate, polyvinyl chloride and nylon.)
United States Rubber Co., New Center Bldg., Detroit 2, Mich.
Wade Electric Prods. Co., 211 N. Jacobs St., Sturgis, Mich.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Phenolic.)
Woodall Industries, Inc., 7565 E. McNichols Rd., Detroit 34, Mich.

(Sheets, Rods, Tubes and Filaments)

Acsdia Div. Western Felt Works, 4035-4117 Ogden Ave., Chicago 23, Ill. (Synthetic resin sheets.)
Anchor Plastics Co., 36-36 36th St., Long Island City 6, N. Y.
Auburn Button Works, Inc., 45 Canoga St., Auburn, N. Y.
Bakelite Co., 30 E. 42nd St., New York 17, N. Y.
Cadillac Plastic & Chemical Co., 1511 Second Ave., Detroit 3, Mich. (Cast acrylic rods and tubes.)
Campo Div. Chicago Molded Products Corp., 2727 N. Normandy Ave., Chicago 35, Ill. (Rubber modified styrene sheets and ethyl cellulose shell and film.)
Celanese Corp. of America, Plastic Bldg., 180 Madison Ave., New York 16, N. Y.

Continental Diamond Fibre Div., Budd Co., Newark 10, Del.
Crane Packing Co., 6435 Oakton St., Morton Grove, Ill.
du Pont de Nemours & Co., E. I., Film Dept., Wilmington 90, Del. (polyester film.)
du Pont de Nemours & Co., E. I., Polychemicals Div., Plastic Sales Section, Wilmington 98, Del.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Felsenthal & Sons, Inc., 4100 W. Grand Ave., Chicago 51, Ill. (Acrylic, vinyl, acetate and polyethylene sheets.)
Flexrock Co., Packing Div., 36th & Filbert Sts., Philadelphia 4, Pa.
Formica Co., 4614 Spring Grove Ave., Cincinnati 32, Ohio.
Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del. (Laminated.)
General Electric Co., Chemical Div., 1 Plastics Ave., Pittsfield, Mass. (Laminated phenolic sheets, rods and tubes.)
Gilman Bros. Co., Gilman, Conn. (Polystyrene sheet.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton, Ohio.
Mica Insulator Co., Broadway, Schenectady, N. Y. (Laminated phenolic.)
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.
Monsanto Chemical Co., Plastics Div., Springfield 2, Mass.
National Plastic Products Co., Odenton, Md. "Saran." (Filament for automobile seat covers and upholstery.)
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del.
Nixon Nitration Works, Nixon, N. J.
Panelyte Div. St. Regis Paper Co., 230 Park Ave., New York, N. Y. (Laminated phenolic.)
Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.
Polymer Corp. of Pa., 2120 Fairmount Ave., Reading, Pa.
Resistoflex Corp., Woodland Ave., Roseland, N. J.
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y.
Synthane Corp., Oaks, Pa. (Laminated phenolic.)
Taylor Fibre Co., Norristown, Pa.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Vogt Mfg. Corp., 100 Fernwood Ave., Rochester 21, N. Y.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.
Wilmington Fibre Specialty Co., New Castle, Del.

(Sheets, Transparent)

Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.
Lushan Co., 144 Moody St., Waltham 54, Mass.
Rohrer & Haas Co., 222 W. Washington Sq., Philadelphia 5, Pa. (Cast acrylic.)

PLATES, Clutch Pressure

Accurate Parts Mfg. Co., 1800 S. Ashland Ave., Chicago 8, Ill.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

PLATES, FLOORING, See Flooring, Truck and Trailer

PLATES, Stop

Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.
Moore & Co., Samuel, Mantua, Ohio.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio. (Scuff.)
Western Metal Specialty Div., Western Industries, Inc., 1213 N. 62nd St., Milwaukee 13, Wis.
Western Motors, Body Div., 4834 Cermak Rd., Cicero, Ill.

PLIERS, BRAKE SPRING, See Tools, Brake Spring Removing and Replacing

PLIERS, TERMINAL, See Tools, Battery Service

PLOWS, SNOW, See Snow Plows



NEWS for Fleet Operators

HOLLEY CARBURETOR COMPANY • VAN DYKE, MICHIGAN

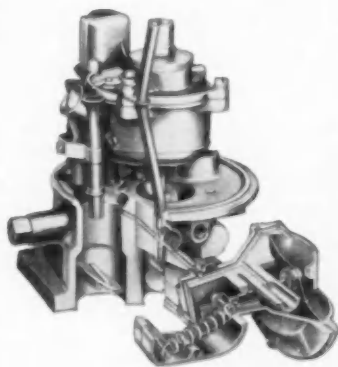
More Economy at High Speeds With Holley 4-Barrel Carburetor

The new White Mustang engines feature the famous Holley 4-barrel carburetor (Model 2140-SG) with integral governor and automatically controlled secondary throttle plates.

At low speeds the primary throttles are controlled by the accelerator, and secondary throttle plates remain closed.

As engine speed increases, air flow to the engine is increased through the primary bores. This creates a vacuum at the throat of the primary venturi. Thus, at high speeds the vacuum created by the increased air flow opens the secondary throttle plates increasing the carburetor capacity and automatically maintaining the proper fuel-air ratio.

This new, positive fuel metering system provides increased operating efficiency.



The Holley 2140-SG 4-barrel truck carburetor is the first such carburetor ever to be designed with an integral governor.



Capacity of induction system in the White engine has been increased by the use of a new water jacketed manifold and a new Holley 4-barrel truck carburetor.

New White "9000" Line Equipped With Holley Carburetors

The White Motor Company has announced that its new "9000" line offers a choice of four new White Mustang gasoline engines with 145 h.p., 160 h.p., 200 h.p. and 215 h.p. ratings. The new engines are improved versions of the famous White Mustang design. The three larger engines feature the Holley 4-barrel truck carburetor (Model 2140-SG) with an integral governor.

Another significant feature of the new

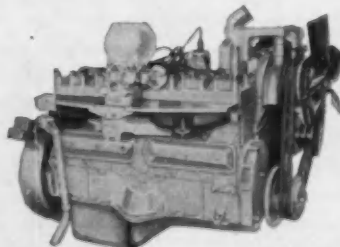
White "9000" line is the 90-inch dimension from front-of-bumper to back-of-cab. This shortened dimensional tractor can accommodate a 35-ft. high-cube trailer with a wide range of kingpin locations and remain within the 45-ft. overall length limit. The front axle, springs, steering gear and frame of this new White tractor can be tailored to handle loading up to 11,500 lbs. with complete safety.

Features of New Engine Provide Increased Power

In addition to the installation of the Holley 4-barrel carburetor on the larger sizes, the new White Mustang engine features an improved cooling system, a cylinder head (almost double the depth of the previous design), and an alloy

steel crankshaft. Increased oil pressures have been achieved with a 40% larger-capacity oil pump. Another significant development is a manually controlled under-the-hood or outside carburetor induction system that has been installed with an oversized air cleaner.

These improvements will provide greater life and reliability of the Mustang engine, as well as increased power. The new design will also increase spark plug life.



One of the four new White Mustang engines available in the White "9000", rated at 145, 160, 200 and 215 horsepower. This is the 200 horsepower, 470A Mustang engine.

HOLLEY CARBURETOR COMPANY

11955 E. Nine Mile Road
Van Dyke, Michigan

FOR MORE THAN HALF-A-CENTURY—
ORIGINAL EQUIPMENT MANUFACTURERS FOR
THE AUTOMOTIVE INDUSTRY

plugs to presses

CCJ'S PRODUCT DIRECTORY

PLUGS, Fusible Safety for Hydraulic Lines

Shand & Jura Co., 8th & Carlton Sts., Berkeley 10, Calif.

PLYWOOD, See Panels, Plywood

POINTS, Ignition

American Motor Products Co., Fond du Lac, Wis.
American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
Electric Auto-Lite Co., Toledo 1, Ohio
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
Frederick Products, Inc., 154 Nassau St., New York, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Holley Carburetor Co., 11955 Nine Mile Rd., Van Dyke, Mich.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Premco Products, Inc., Nashua, N. H.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Speer Carbon Co., St. Marys, Pa.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wilson Co., H. A., Union N. J.

POLISH, Body

Aeme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa.
Allure Corp., 928 Allen Ave., Glendale 1, Calif.
Alsop Products Co., 154 Clifford St., Newark 5, N. J.
Atomix, Inc., Box 486, Wilmington 99, Del.
Bail Chemical Co., 524 Federal St., Pittsburgh 12, Pa.
Bandimere Mfg. Co., 3276 Benton St., Denver 14, Colo.
Barton Products Co., 2765 St. Marys Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Boyle-Midway, Inc., 22 E. 40th St., New York 16, N. Y.
Bulleys Corp., 150 Amity St., New Haven 15, Conn. (Sole distributors Livingston Co., 148 Amity St., New Haven 15, Conn.)

Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.
Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.
Collanite Chemical Co., 1205 Mohawk St., Utica 3, N. Y.
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Continental Car-Na-Var Corp., Brazil, Ind.
Drew & Co., E. T., Automotive Chemicals Div., 15 E. 26th St., New York 10, N. Y.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (Pigmented.)
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington 98, Del.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Freeman & Freeman, Inc., 600 Grant St., Denver 3, Colo.
Garry Laboratories, Inc., 701 Seneca St., Buffalo 10, N. Y.
Glasten Co., 13 Barnard St., Hillsdale, Mich.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Goodrich Co., Industrial Prods. Div., B. F., 500 S. Main St., Akron, Ohio.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. (Wax.)
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.
Johnson & Son, Inc., S. C., Racine, Wis.
Jones Products Co., 1406 Massachusetts Ave., Arlington 74, Mass.
Kammel Products Corp., 1619 Hart Place, Brooklyn 24, N. Y.
Ken-Nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lacquerwax Co., 57 N. Washington St., Plainville, Conn. (Wax.)
Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
Liquid Glaze, Inc., 704 Sheridan St., Lansing 6, Mich.
Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 8, N. Y.
Lusco, Inc., 5915 Bonna Ave., Cleveland 3, Ohio.
McAleer Mfg. Div. of Higbie Mfg. Co., Fourth & Water Sts., Rochester, Mich.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Mantong Mfg. Co., 3000 Middlefield Rd., Redwood City, Calif.
Milwaukee Electric Tool Corp., 5316 W. State St., Milwaukee 8, Wis.
Mirror Bright Polish Co., 365 N. Altadena Blvd., Pasadena, Calif.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Plasticlear Products, Inc., 29 Mills St., Malden, Mass.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Shell Oil Co., 50 W. 50th St., N. Y. 20, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Silver-Glo Co., 185 S. Main St., Seymour, Conn.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill.
Sinclair Refining Co., 600 Fifth Ave., New York, N. Y.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.
Swavely Chemical & Varnish Works, 531 Page St., Flint 5, Mich.
Tone Mfg. Co., 605 Hubbard St., Grand Rapids 5, Mich.
Turner Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Universal Chemical Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Westley Industries, 1898 Scranton Rd., Cleveland 13, Ohio.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.

Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J.
Zecol, Inc., 3270 S. 3rd St., Milwaukee 7, Wis.

POLISHERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
Buckeye Tools Corp., 5005 Springboard Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44 St., N. Y. 17, N. Y.
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Cummins Portable Tools Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
Dremel Mfg. Co., 2420 18 St., Racine, Wis.
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Lee Co., A. O., Congress at First Ave., S.E., Aberdeen, S. D.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Nedco Co., 87 Rumford Ave., Waltham, Mass.
Portable Elec. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.
United States Electrical Tool, Div. of Emerson Electric Mfg. Co., 1050 Findlay St., Aurora, Ill.
Wen Products, Inc., 5806 N.W. Hwy., Chicago 31, Ill.

POLISHERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.

POLISHING COMPOUNDS, See Compounds, Rubbing and Polishing

POWER TAKE-OFFS, See Take-Offs, Power

PRESSES, Arbor

Acromark Co., 9 Morrell St., Elizabeth 4, N. J.
Bee-Line Co., Box 569, Davenport, Iowa.
Bellows Co., 222 W. Market St., Akron 9, Ohio. (Pneumatic.)
Champion Blower & Forge Co., Harrisburg Ave., & Charlotte St., Lancaster, Pa.
Dake Corp., 639 Monroe St., Grand Haven, Mich.
Fameco Machine Co., 3100 Sheridan Rd., Kenosha, Wis.
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H. (Hand and hydraulic.)
Hannifin Co., 615D S. Wolf St., Des Plaines, Ill.
Houdaille Industries, Inc., Manzel Div., 315 Babcock St., Buffalo 10, N. Y.
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Electric and hydraulic.)
Logansport Machine Co., Center Ave., Logansport, Ind. (Pneumatic and hydraulic.)
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
Mead Specialties Co., 4114 N. Knox Ave., Chicago 41, Ill. (Pneumatic.)
Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif. (Hand and hydraulic.)
Owstonna Tool Co., 432 N. Cedar St., Owatonna, Minn.
Products Machine Co., 990 Housatonic Ave., Bridgeport 1, Conn.
Rotex Punch Co., 2350 Alvarado St., San Leandro, Calif.
Studebaker Hydraulic Products Co., 1221 S. 9th Ave., Maywood, Ill. (Hydraulic.)

Did Somebody Say
RELIABLE?



AP NEWS PHOTO, JAN., 1956, LANCASTER, PA. A milk truck conquers high drifts after an unseasonably heavy snowfall clogged many roads.

DIVCO TRUCKS

*... nationally famous for
Reliable Performance!*

Engineered to give years of extra life, Divco Trucks have built an unusual reputation for low maintenance and low operating costs regardless of weather and terrain. Scientific corrosion protection throughout and oversize component parts at every stress point. More and more dairies are turning to husky Divco Trucks because they know even under extreme conditions they can **DEPEND** on Divcos.

WIDE CHOICE OF MODELS

there's a DIVCO for every milk requirement regardless of speed, load or length of route.

100¾" wheelbase	52/75 Qt. milk cases
115" wheelbase	75/100 Qt. milk cases
127½" wheelbase	120 Qt. milk cases
10' wholesale body	165 cases
12' wholesale body	180 cases

Many optional features available including factory installed insulation and refrigeration.



UP NEWS PHOTO, SEPT., 1955, WHITE-STONE, L.I. Despite high flood waters, milkman Frank White makes his deliveries as usual.

DIVCO CORPORATION

22000 HOOVER ROAD • DETROIT 5, MICHIGAN

OVER 80% OF ALL DIVCOS BUILT SINCE 1927 ARE STILL IN USE!

presses to pumps

CCJ'S PRODUCT DIRECTORY

PRESSES—continued

Treadwell Tap & Die Co., Greenfield, Mass.
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Ullmo Tool Co., 2515 Superior St., Cleveland, Ohio. (Portable.)
Wilson, Inc., K. R., Arcade, N. Y.

PRESSES, Hydraulic

Air Hydraulics, Inc., 811 Belden St., Jackson, Mich.
American Branch & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.
Anderson Bros. Mfg. Co., 1907 Kiwaukee St., Rockford, Ill.
Baldwin-Lima-Hamilton Corp., Philadelphia 42, Pa.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Bliss Co., E. W., 1375 Raff Rd. S. W., Canton, Ohio.
Brandt Machine Co., C. R., Roosevelt Ave., York, Pa.
Chambersburg Engrg. Co., Derbyshire St., Chambersburg, Pa.
Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill.
Clifton Hydraulic Press Co., 289 Alwood Rd., Clifton, N. J.
Colton Co., Div. of Snyder Tool & Engrg. Co., 3400 E. Lafayette St., Detroit 7, Mich.
Dake Corp., 630 Monroe St., Grand Haven, Mich. (Electrically, air and hand operated.)
Denison Engineering Co., 1160 Dublin Rd., Columbus, Ohio.
Detroit Branch Co., 950 S. Rochester Rd., Rochester, Mich.
Elmes Engrg. Div., American Steel Foundries, 1163 Tennessee Ave., Cincinnati 29, Ohio.
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Farrel-Birmingham Co., 97 Main St., Ansonia, Conn.
Fox Engrg. Co., 1336 Francis St., Jackson, Mich.
French Oil Mill Machinery Co., Piqua, Ohio.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H.
Hannifin Corp., 615D South Wolf Rd., Des Plaines, Ill.
Hydraulic Press Mfg. Co., Mount Gilead, Ohio.
Lake Erie Engineering Corp., 890 Woodward Ave., Buffalo 17, N. Y.
Lapointe Machine Tool Co., 34 Tower St., Hudson, Mass.
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.
Link Engrg. Co., 13845 Elmira Ave., Detroit 27, Mich.
Loewy-Hydro Press Div. of Baldwin-Lima-Hamilton Corp., 111 Fifth Ave., New York 3, N. Y.
Logan Engrg. Co., 4901 W. Laurence Ave., Chicago 30, Ill.
Logansport Machine Co., Center Ave., Logansport, Ind.
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
Mesta Machine Co., Box 1466, Pittsburgh, Pa.
Morgan Engineering Co., Broadway and C. & P. R. R., Alliance, Ohio.
Munton Mfg. Co., 9161 Fullerton Ave., Franklin Park, Ill.
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif.
Oliver Corp., A. B., Farquhar Div., 142 N. Duke St., York, Pa.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Paul Machine Tool & Die Works, 4600 S. Kedzie Ave., Chicago 32, Ill.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis, Ind.
Studebaker Hydraulic Products Co., 1221 S. 9th Ave., Maywood, Ill.
Sutton Engrg. Co., 234 S. Potter St., Bellefonte, Pa.
Tobin-Arp Mfg. Co., 6400 Penn Ave., S. Minneapolis 23, Minn.
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Vernon Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.
Watson-Stillman Co., 109 Aldene Rd., Roselle, N. J.

Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.
Wilson, Inc., K. R., Arcade, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.
Wood Co., R. D., Room 1072, Public Ledger Bldg., Philadelphia 5, Pa.

PRESSES, Straightening, Wheel

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Buehler & Sons, J. A., 409 E. Fort St., Detroit 26, Mich.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind.

PRIMERS, Engine, Hand

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Standard Oil Co. of Calif., 225 Bush St., San Francisco 20, Calif.

PROPANE, See Fuels, Engine

PRUSSIAN BLUE, See Blms, Mechanics

PULLERS, Axle Tube

Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Owatonna Tool Co., 341 Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukee, Ore.

PULLERS, Bearing, Gear and Wheel

Armstrong-Bray & Co., 5364 Northwest Highway, Chicago, Ill.
Atmars Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 8, Mo. (Wheel.)
Beauloye Engrg. Co., 1344 Broadway, San Diego, Calif.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. (Hydraulic.)
Bonney Forge & Tool Works, 2400 Rockhill Rd. N., Alliance, Ohio.
C. & G. Wheel Puller Co., Seio, N. Y.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Also timing gear.)
Cam Tool Co., 11 Randwick Ave., Oakland 11, Calif.
Campbell Auto Wks., 2128 N. F St., Stockton, Calif.
Cornwall Quality Tools Co., Mogadore, Ohio.
Crane Fuller Co., 11 River St., West Newton, Mass.
Dalton Foundries, Inc., Warsaw, Ind. "Big Boy."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Gerb Co., 181 Canton St., Stoughton, Mass.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Jaw Mfg. Co., 23 Mulberry St., Reading, Pa.
K-D Mfg. Co., 528 N. Plum St., Lancaster, Pa. (Wheel.)
Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Miller Mfg. Co., 6919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. (Also hydraulic conversion sets.)
P & C Tool Co., Box 5926, Milwaukee, Ore.
Powercraft Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 51, Cal.
Rineck Melwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. (Wheel.)
Simmons Mfg. Co., Ashland, Ohio.

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio.
Templeton, Kenly & Co., Gardner Rd., Broadview, Ill. (Hydraulic.)
Ullmo Tool Co., 2515 Superior St., Cleveland, Ohio.
Vlcek Tool Co., 3000 E. 87th St., Cleveland, Ohio.
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio. (Wheel.)
Zim Mfg. Co., 3007 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

PULLERS, Cylinder Head

Cornwall Quality Tools Co., Mogadore, Ohio.

PULLERS, Cylinder Sleeve

Fort Dodge Machine & Supply Co., 529 First Ave., S. Fort Dodge, Iowa.
Hein Werner Corp., 1200 National Ave., Waukesha, Wis. (Hydraulic.)
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. (Also hydraulic conversion sets.)
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.

PULLERS, VEHICLE, See Towers

PUMPS, Brake, Vacuum

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 29, Ind.
Hetzel Bros., 1457 E. Washington Blvd., Los Angeles 21, Calif.
Kelsey-Hayes Wheel Co., 8600 Military Ave., Detroit 32, Mich.

PUMPS, Drum or Barrel Type

Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn.
Wood Co., John, Bennett Pump Div., Muskegon, Mich.

PUMPS, Fuel

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical, also combustion fuel feed and vacuum.)
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill. (Also combination fuel and vacuum.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
American Motor Products Co., Fond du Lac, Wis.
Autopulse Corp., 218 E. Dowland St., Ludington, Mich. (Electric.)
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Electric and mechanical.)
Eastern Industries, Inc., 190 Skiff St., Hamden, Conn.
Eclipse Machine, Div. Bendix Aviation Corp., Elmira, N. Y. (Electric.)
Electric Auto-Lite Co., Toledo 1, Ohio.
Fredero Products, Inc., 154 Nassau St., New York, N. Y.
Hygrade Products Div., Standard Motor Products, Inc., 37-13 Northern Blvd., Long Island City 1, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. (Also combination fuel and vacuum.)
Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill. (Electric.)
Vepco Fuel Pump Sales, 17304 Lahser Rd., Detroit 19, Mich.

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free!

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PURCHASE THE SUGGESTED "FAST-MOVING" FITTINGS
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This New Weatherhead cabinet offers "years-ahead" features for more efficient stocking . . . positive parts identification. Take advantage of this Money-Saving offer NOW! Get full details from your nearby Weatherhead Distributor Salesman or write The Weatherhead Company, Fort Wayne Division, Dept. C-11, 128 W. Washington Blvd., Fort Wayne, Indiana. In Canada: The Weatherhead Co., Ltd., St. Thomas, Ont.



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THE ORIGINAL
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F-2

F-2 Fittings cabinet is designed for Fleets, Car Dealers, Farm Implement Dealers and Large Service Shops.

Now...get all the advantages of

Quick Clutch



Every Lipe Factory Exchange Unit is built of the same quality materials—to the same precise tolerances—tested to the same exacting specifications—as a new clutch. As such it carries Lipe's Seal of Protection—your guarantee of *genuine* Lipe parts and craftsmanship.

Replacement with *Lipe* FACTORY EXCHANGE UNITS

Cuts costs 4 ways

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|---|--|
| <p>1
<i>Cuts</i> DOWNTIME No long lay-ups for clutch repairs — trucks are out of the shop and on the road faster.</p> | <p>3
<i>Cuts</i> TOOL INVESTMENT No expensive clutch rebuilding equipment to buy — none to maintain.</p> |
| <p>2
<i>Cuts</i> LABOR No costly time spent on clutch disassembly, inspection, parts replacement, assembly and testing.</p> | <p>4
<i>Cuts</i> TRUCK DEPRECIATION No chance of an unbalanced clutch causing excessive vibration, wear and tear of vital gears, drive shaft and bearings.</p> |

Lipe's Factory Exchange Plan Makes Dollars and Sense

Next time you need a clutch repair job, install a Lipe Factory Exchange Unit instead. Then check your savings in overhead alone. Conservative estimates show that you should *reduce your clutch repair bills up to 25%!*

That's a hefty saving no matter how large or small your fleet is. See for yourself. Next time order a Factory Exchange Unit from your authorized Lipe distributor.

Authorized Lipe Service Stations are located from coast to coast. For quick service on genuine Lipe parts and exchange units, look for this ad in the classified section of telephone directories in principal cities.



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Manufacturers of Automotive Clutches and Machine Tools
Syracuse 1, N. Y.

pumps to reamers

PUMPS, Gasoline, Filling Station

Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne 2, Ind. (Also LP Gas.)
 Correct Mfg. Co., Box 190, Rochester, Pa.
 Dayton Pump & Mfg. Co., 500 N. Webster St., Dayton, Ohio.
 Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
 Gilbert & Barker Mfg. Co., West Springfield, Mass.
 Smith Corp., A. O. Meter Div., 5715 Smithway St., Los Angeles 27, Calif.
 Southwest Pump Co., First & Center Sts., Bonham, Tex.
 Tokheim Corp., 1602 Wabash Ave., Fort Wayne, Ind.
 Wayne Pump Co., Salisbury, Md.
 Wood Co., John, Bennett Pump Div., Broadway & Wood Sts., Muskegon, Mich.

PUMPS, Oil

(Advertisers Only)

Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

PUMPS, Water

Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill.
 Allied Motor Parts Co., Detroit 1, Mich.
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
 Atlas Brass Foundry Co., 32 W. Deshler Ave., Columbus, Ohio.
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.
 Balerank, Inc., Disney St. nr. Marburg, Cincinnati 9, Ohio.
 Elgin Machine Works, 412 N. State St., Elgin, Ill.
 Ertel Products Corp., Div. Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.
 Grapho Products, Inc., P. O. Box 8604, Lawrence, Ind.
 Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.
 L C Products, Inc., 2232 Alford St., Indianapolis 7, Ind.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 McQuay-Norris Mfg. Co., St. Louis 10, Mo. (Factory Rebuilt.)
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
 Parts Specialties, 5984 Lincoln Ave., Detroit 8, Mich. (Factory Rebuilt.)
 Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind.
 Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
 Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.
 Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind.
 Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y.
 Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.
 Wolverine Gear & Parts Co., Osseo, Mich.

RACKS, Stock, Tire and Tool, Metal

Ainsworth Mfg. Co., 2200 Franklin St., Detroit 7, Mich.
 Angle Steel Stool Co., 55 Oak St., Plainville, Mich.
 Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. (Tire.)
 Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
 Bay Products, Inc., 3001 N. 16th St., Philadelphia 32, Pa. (Steel tool.)
 Berger Div., Republic Steel Corp., 1038 Belden Ave., N. E. Canton 5, Ohio.
 Bernard Franklin Co., Hedley & Bath Sts., Phila. 37, Pa.
 Branick Mfg. Co., Fargo, N. D. (Tire.)
 Brown Engineering Co., 131 N. Third St., Reading, Pa. (Stock.)
 Coats Co., 3001 Fifth Ave., S. Fort Dodge, Iowa. (Tire; sole distributors Jack P. Hennessy Sales Co., 12 Depot Sq., Englewood, N. J.)
 Durlach Can & Iron Works, 174 Seventh St., Brooklyn 15, N. Y.
 Economy Engineering Co., 4511 W. Lake St., Chicago 24, Ill. (Barrel.)
 Equipito Div., Aurora Equipment Co., Prairie St. at Cleveland, Aurora, Ill.
 Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.

Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
 Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
 International Equipment Div. Morrison Railway Supply Corp., P. O. Box 185, Sta. F, Buffalo, N. Y. (Sole distributors Jack P. Hennessy Sales Co., Englewood, N. J.)
 Kirspel Industries, Inc., Livingston, N. J.
 Lewis-Shepard Products, Inc., 125 Walnut St., Watertown, Mass.
 Logan Co., Cabel St., Louisville 6, Ky.
 Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
 Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. (Stock.)
 Paltier Corp., 1701 Kentucky St., Michigan City, Ind.
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Barrel and drum.)
 Supreme Steel Equipment Co., 53rd St. & First Ave., Brooklyn 32, N. Y.
 Unistrut Products Co., 1015 Washington Blvd., Chicago 7, Ill. (Framing.)

RADIATOR COVERS, See Covers, Radiator Grille

RADIATOR GRILLES, See Grilles, Radiator

RADIATOR SHUTTERS, See Shutters, Radiator

RADIATORS, Engine Cooling

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
 Blackstone Corp., 1088 Allen St., Jamestown, N. Y.
 Daniel Radiator Mfg. Co., 5542 Harvey Wilson Dr., Houston 20, Tex.
 Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill.
 Fedders-Quigan Corp. Co., 57 Tonawanda St., Buffalo 7, N. Y.
 G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
 General Radiator Co., Box 28, Mt. Vernon, Ill.
 Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
 Lake Auto Radiator Mfg. Co., 5200 W. 130th St., Cleveland, Ohio.
 Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich.
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
 Modine Mfg. Co., 1500 De Koven Ave., Racine, Wis.
 Perflex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wis.
 United Motor Service, General Motors Bldg., Detroit 2, Mich.
 Yates-American Machine Co., Beloit, Wis.
 Young Radiator Co., 709 S. Marquette St., Racine, Wis.

RADIOS, Two-Way

A. R. F. Products, Inc., 7627 Lake St., River Forest, Ill.
 Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md.
 Communications Co., 300 Greco Ave., Coral Gables 34, Fla.
 Du Mont Laboratories, Inc., Allen B., 750 Bloomfield Ave., Clifton, N. J.
 Federal Telephone & Radio Co., 100 Kingsland Rd., Clifton, N. J.
 General Electric Co., Electronics Div., Electronics Park, Syracuse, N. Y.
 Kaar Engrg. Corp., 2995 Middlefield Rd., Palo Alto, Calif.
 Motorola Communications & Electronics, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
 Radio Corp. of America, Mobile Communications Equip., Commercial Electronics Dept., Camden, N. J.

RADIOS, Vehicle (Receivers)

Automatic Radio Mfg. Co., 122 Brookline Ave., Boston, Mass.
 Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md. (Custom built.)
 Delco Radio Div., General Motors Corp., Kokomo, Ind.
 Motorola Communications & Electronics, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
 Philco Corp., Industrial Radio Div., Tioga & C Sts., Philadelphia 34, Pa.

RAILS, Rub. Pressed Steel

Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.

Cutler Metal Products Co., 1029 Line St., Camden, N. J.
 Hart Metal Products Corp., 3333 Hammond Ave., Elkhart, Ind.
 Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
 Magline, Inc., 952 Murray Rd., Pinconning, Mich.
 Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.

RAMPS, Truck Loading

Bustin Steel Products, Inc., Dover, N. J.
 "Bustin-Firm Grip."
 Cemo Industries, Inc., Galion, Ohio. (Hydraulic.)
 Christensen Co., Wm. Sherman St. & M-P Railway, York, Pa. (Adjustable.)
 Colon Co., Leroy L., 5840 N. Kilbourn Ave., Chicago 30, Ill.
 Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Hydraulic.)
 Herman Co., Karl A., 412 Fuller St., N.E., Grand Rapids, Mich. (4 way adjustable.)
 Magline, Inc., 952 Murray Rd., Pinconning, Mich. (Dockboards & mobile ramps.)
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J. "Make-It-Evener." (Hydraulic.)
 Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. "Leva-Docks."
 Rowe Methods, Inc., 2534 Detroit Ave., Cleveland 13, Ohio. "Adjust-A-Dock," "Adjust-A-Truck." (Electric hydraulic.)
 Wayne Pump Co., Salisbury, Md.

RAMS, Hydraulic

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
 Bee-Line Co., P. O. Box 569, Davenport, Iowa.
 Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
 Hein-Werner Corp., 1290 National Ave., Waukegan, Wis.
 Livingston Mfg. Co., 8438 Otis St., South Gate, Cal.
 Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill. (Hydraulic remote control.)
 Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. (Hydraulic remote control.)
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
 Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."
 Templeton Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.

RATCHETS, Ridge Rope for Truck Covers

(Advertisers Only)

East Akron Ratchet & Mfg. Co., 1048 Bank St., Akron 5, Ohio.

REAMERS, Cylinder Ridge

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.
 All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.
 Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
 Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
 Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
 Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
 Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 National Machine & Tool Co., Hand Tools Div., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., South St., New Britain, Conn.
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
 Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.
 Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn.
 Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

REAMERS, Main Bearing and Connecting Rod

Keystone Reamer & Tool Co., Millersburg, Pa.
 Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y. (Connecting rod.)
 Wilson, Inc., K. R., Arcade, N. Y.

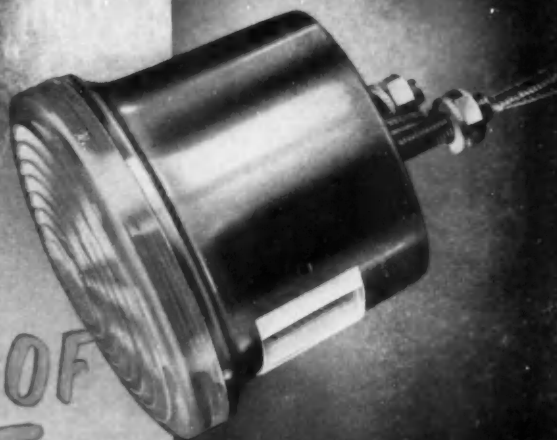
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CAN'T SHORT

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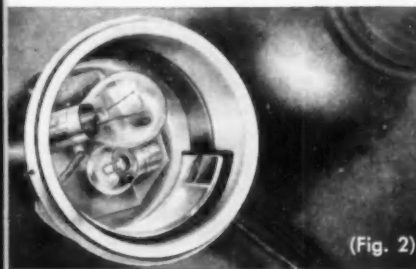
NEW DIETZ

WATERPROOF



(Fig. 1)

SNAP-ON LENS! No screws or doors to loosen, leak or rattle. Removes easily with a twist of coin or screwdriver.



(Fig. 2)

ONE OR TWO BULB TYPE! Two bulb style (Fig. 2) uses two 1-filament bulbs — one for stop and one for tail light. One bulb style (Fig. 1) uses single 2-filament bulb.

STOP AND TAIL LIGHTS!

Rain will never penetrate a light that withstands the full force of a high-pressure fire hose! The new 107 series of Dietz waterproof stop and tail lights are positively moisture tight . . . as proved by rigid tests to S.A.E. standards for waterproofing.

Each light is sealed by an O-Ring in front . . . and by a rubber compression-grommet to protect the bulb socket in back. There are no springs to rust out, and the die-cast zinc housing will not corrode.

THREE TIMES BRIGHTER! Available in 6V or 12V, one or two-bulb type. There are 7 different mounting styles to choose, each offering license plate illumination.

YOUR DIETZ JOBBER has all the facts. See him or write us for a catalog sheet. R. E. Dietz Co., 225 Wilkinson St., Syracuse, N. Y. Manufacturers of the most complete line of automotive lighting and safety equipment in the world.

"Go **DIETZ** and you go *safely*"

reamers to refrigerating units

CCJ'S PRODUCT DIRECTORY

REAMERS, Power Drive

Barber-Colman Co., 1300 Rock St., Rockford, Ill.
Besly-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.

REAMERS, Solid Expansion and Adjustable

Ace Drill Corp., 2600 E. Maumee St., Adrian, Mich. (Solid.)
Arrow Tool & Reamer Co., 418 Livernols Ave., Detroit 9, Mich. (Solid.)
Barber-Colman Co., 1300 Rock St., Rockford, Ill. (Solid and adjustable.)
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa.
Besly-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.
Chadwick & Trefethen, 32 Bow St., Portsmouth, N. H.
Chicago-Latrobe, 426 W. Ontario St., Chicago 10, Ill. (Expansion.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.
Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 475 S. Seymour St., Fond du Lac, Wis.
Do All Co., 254 N. Laurel Ave., Des Plaines, Ill.
Gairing Tool Co., 21221 Hoover Rd., Detroit 32, Mich. (Expansion.)
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. (Solid and Expansion.)
Hill Nut Co., 2620 W. Flourney St., Chicago 12, Ill.
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Expansion and adjustable.)
Jarvis Corp., Middletown, Conn. (Solid.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D. (Expansion.)
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Adjustable: Sole distributors to replacement trade Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
McCrosky Tool Corp., S. Main St., Meadville, Pa. (Adjustable.)
Madison Mfg. Co., 1713 7th St., Muskegon, Mich. (Adjustable.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Twist Drill & Tool Co., Rochester, Mich. (Solid.)
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
O. K. Tool Co., Milford, N. H. (Adjustable.)
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.
Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill. (Expansion; also solid valve guide.)
Reliff & Nestor Co., Lykens, Pa.
Reltool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
Shearcut Tool Co., 7045 Darby Ave., Reseda, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.
Staples Tool Co., 2352 Glendale-Milford Rd., Cincinnati 15, Ohio.
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich.
Tungsten-Carbide Tool Co., 26250 W. 7-Mile Rd., Detroit 19, Mich.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt. (Solid and expansion.)
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ohio.
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Solid.)
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

Waukesha Tool Co., Pearl & Ellis Sts., Waukesha, Wis. (Adjustable.)
Wendt-Sonis Co., Hannibal, Mo. (Solid carbide tipped.)
Wesson Tool Co., 12200 Woodward Heights Blvd., Ferndale 20, Mich.
Westmore Reamer Co., 420 N. 27th St., Milwaukee 8, Wis. (Adjustable.)
Whitman & Barnes, Div. of United Drill & Tool Corp., 40085 Plymouth Rd., Plymouth, Mich. (Solid and expansion.)
Wickman Mfg. Co., 10325 Capitol Ave., Oak Park, Detroit 37, Mich. (Adjustable floating.)
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 11, Mich.
Wilson, Inc., K. R. Arcade, N. Y.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

REAMERS, VALVE SEAT, See Tools, Valve Seat Refinishing

RECAPPING & RETREADING, See Molds, Tire Recapping & Retreading

RECLAIMERS, Crankcase Oil

Burt Mfg. Co., 37 E. South St., Akron 11, O.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y.
Kidde & Co., Walter, Youngstown Miller Div., 675 Main St., Belleville, N. J.
Sparkler Mfg. Co., Lake St., Mundelein, Ill.

RECORD MACHINES, Accounting

(Advertisers only)
National Cash Register Co., Dayton 9, Ohio.

RECORDERS, Vibration

Impact-O-Graph Corp., 1900 Euclid Ave., Cleveland 15, Ohio.

RECORDERS, Vehicle Movement

Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.
Sangamo Electric Co., Converse & N. 10th St., Springfield, Ill. (Sole distributors, Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.)
Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.
Wagner Electric Corp., 6476 Plymouth Ave., St. Louis 14, Mo.

REFACERS, Valve, Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Thor Power Tool Co., 175 State St., Aurora, Ill.
Tobin-Arp Mfg. Co., 6400 Penn Ave. S., Minneapolis 23, Minn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Norman Co., Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool Div. of Vickers, Inc., 118 E. Aurora St., Waterbury 91, Conn.
Wilson, Inc., K. R. Arcade, N. Y.

REFLECTIVE MATERIALS

By-Buck Co., 4314 W. Pico Blvd., Los Angeles 6, Calif.
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul, Minn.
Prismo Safety Corp., Huntington, Pa.

REFLECTORS, Safety

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill.
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass.
Anthes Force Oil Co., Ft. Madison, Iowa.
Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill.

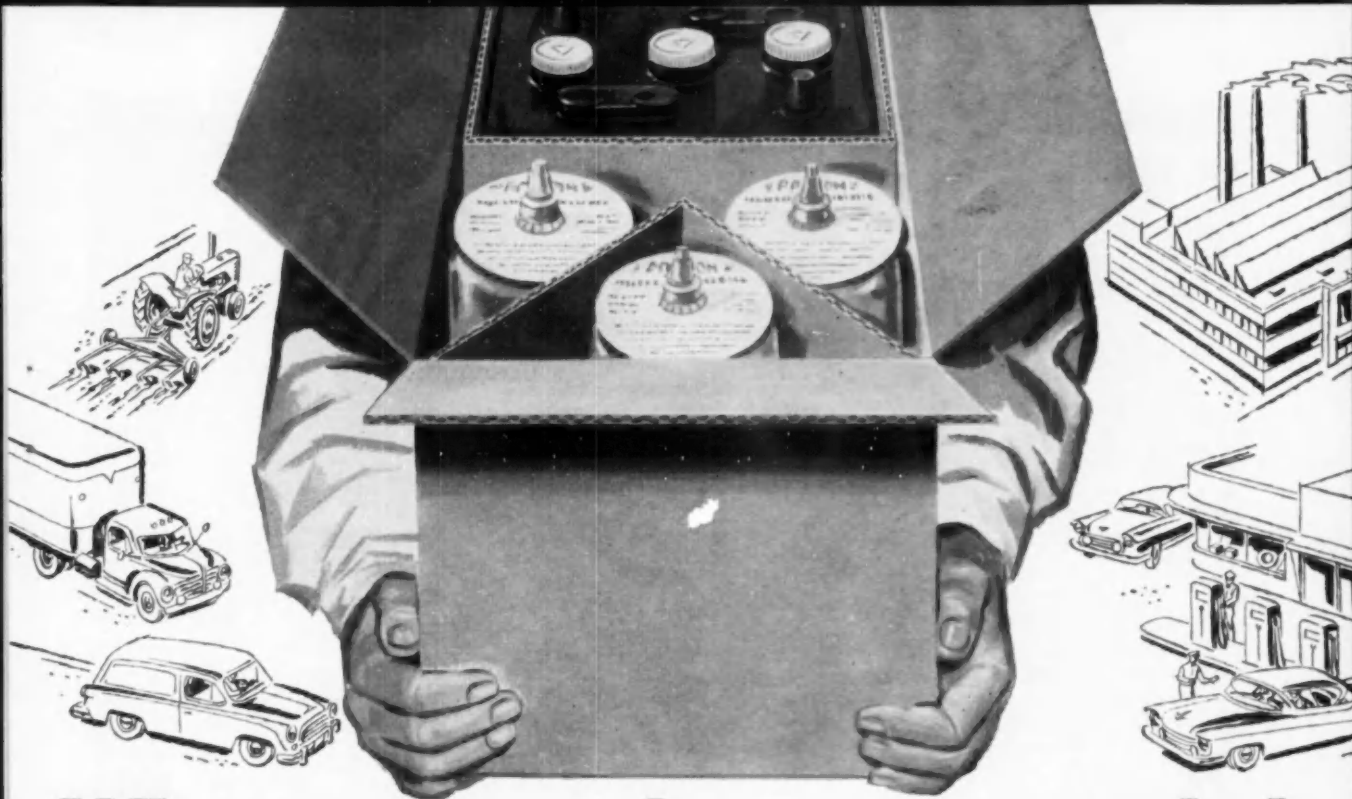
Blue Island Engr. & Supply Co., 5840 S. Oakley Ave., Chicago 36, Ill.
Bolser Corp., S. Main St., Cedar Falls, Iowa.
Cole Automotive Products Co., 2705 S. Michigan Ave., Chicago 16, Ill. (For trucks, trailers and buses.)
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
Emeloid Mfg. Co., 1239 Central Ave., Hillside 5, N. J.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Johnson Glass Co., 5245 Elston Ave., Chicago 30, Ill.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S." (Red, green or amber reflecting glass.)
Miro-Flex Co., 1824 E. Second St., Wichita 7, Kan. "Miro-Flare."
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill.
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Red and amber.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Stimsonite Div. of Elastic Stop Nut Corp. of America, 8445 N. Kimball Ave., Chicago 18, Ill.
Superior Parts Mfg. Corp., 1922 W. Grand Ave., Chicago 22, Ill.
U. S. Tool & Mfg. Co., 1832 N. Sheffield Ave., Chicago, Ill.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. (Bus, truck and trailer.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

REFRIGERATION CONTROLS

General Controls Co., 801 Allen Ave., Glendale 1, Calif.

REFRIGERATING UNITS, Truck and Trailer

Air Induction Corp., 122 W. 30th St., New York 1, N. Y.
American Mfg. Co., P. O. Box 989, Montgomery 2, Ala. (Gasoline, hydraulic and electric driven.)
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Carter Corp., 300 S. Geddis St., Syracuse 1, N. Y.
Coldmobile Div. of Union Asbestos & Rubber Co., 332 S. Michigan Ave., Chicago 4, Ill. (Ice bunker, mechanical.)
Copeland Refrigeration Corp., Short Clinton St., Sidney, Ohio.
Dole Refrigerating Co., 5962 N. Pulaski Rd., Chicago 30, Ill. (Vacuum cold plate evaporators.)
Dyna-Kold Corp., 3221 20th St., San Francisco 10, Calif.
Foster-Built Bunkers, Inc., 757 W. Polk St., Chicago 7, Ill. (Dry ice.)
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.
General Electric Co., Section F-704-60, Schenectady, N. Y.
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Dry ice.)
Illinois Auto Electric Co., 2111 S. Indiana Ave., Chicago 16, Ill. (Sales outlet.)
Keco Industries, Inc., 2332 Spring Grove Ave., Cincinnati 25, Ohio.
Kold Hold Div. of Tranter Mfg., Inc., 620 E. Hazel St., Lansing 4, Mich.
Lehigh Mfg. Co., Div. of Lehigh, Inc., Fountain Ave., Lancaster, Pa.
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y.
Schwitzer-Cummings Company, 1125 Massachusetts St., Indianapolis 7, Ind.
Tecumseh Products Co., Tecumseh, Mich.
Thermo King Corp., 314 W. 90th St., Minneapolis 23, Minn.



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*creative packaging of dry-charged battery
complete with pre-measured electrolyte
was introduced in 1955*

The whole trucking industry needed it . . . Globe's introduction of this dramatic, compact packaging of *everything* required to activate a dry-charged battery swiftly!

Ample inventories may now be kept at warehouse, sub-station stocking and maintenance points, without trickle charge or loss of battery efficiency. For in one simple operation, the sturdy plastic bottles of pre-measured Spinning Power electrolyte of correct specific gravity are nipped and poured . . . rinsed and destroyed. An inert battery is suddenly *ready for action*.

And it took Globe-Union to lead the way!

Faster, lower-cost delivery anywhere!

Of Globe's sixteen battery plants thirteen (*) are producing dry-charged batteries. All Globe plants are strategically located for faster, lower-cost shipments to all markets.

*ATLANTA, GA., *DALLAS, TEXAS, *EMPORIA, KANSAS, *HOUSTON, TEXAS, *LOUISVILLE, KY., *MEDFORD, MASS., *MEMPHIS, TENN., *MILWAUKEE, WIS., *MINERAL RIDGE, OHIO, *PHILADELPHIA, PA., *REIDSVILLE, N. CAROLINA, *SAN JOSE, CALIF., *HASTINGS-ON-HUDSON, N. Y., LOS ANGELES, CALIF., OREGON CITY, ORE., AJAX (ONT.) CAN.

GLOBE-UNION
GLOBE-UNION INC.
MILWAUKEE 1, WISCONSIN

If it's petroleum-powered, there's a **GLOBE-BUILT BATTERY** —right from the start!



Disposable plastic bottles of electrolyte are lightweight, cut shipping costs, yet have amazing resistance to shock or impact. Handy pouring sleeve provides extra margin of safety and convenience.



Nothing to hunt for, nothing to measure! No waste of time or electrolyte. Single strong, compact carton contains battery, electrolyte and sleeve . . . everything needed to activate battery swiftly!

OTHER IMPORTANT GLOBE FIRSTS:

- Rubber separators
- Lead oxides
- Thin-wall plastic containers
- Painted batteries for eye-appeal

regroovers to retainers

CCJ'S PRODUCT DIRECTORY

REFRIGERATING UNITS—continued

Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.
Tru Kooler, Inc., 136 S. Frederick Ave., Oelwein, Iowa.

REGROOVERS, Tire

Bean Div. Food Mchry. & Chemical Corp., 1305 S. Cedar St., Lansing 4, Mich.
International Equipment Co. Div. Morrison Railway Supply Corp., P. O. Box 185, Sta. F. Buffalo, N. Y. (Sole distributors Jack P. Hennessy Sales Co., Englewood, N. J.)
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Keystone Rubber & Equipment Corp., 1335 N. 5th St., Philadelphia 22, Pa.
Mertens Mfg. Co., 1533 Hamilton Ave., Racine, Wis.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Thompson & Sons, O. E., 111 Quimby St., Westfield, N. J. (Electrically heated, hand operated.)
Van Tool, 139 N. 22nd St., Philadelphia 3, Pa.

REGULATORS, Current and Voltage

American Bosch Corp., Springfield 7, Mich.
American Motor Products Co., Fond du Lac, Wis.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
Electra Mfg. Co., 800 N. 21st St., Independence, Kan.
Electric Auto-Lite Co., Toledo 1, Ohio.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill. (Voltage.)
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

REGULATORS, Humidity, Paint Shop

Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
Bristol Co., Waterbury 20, Conn.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Horn.)
Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., 3409 Oakton St., Skokie, Ill.
Weston Electrical Instrument Corp., 614 Freelinghuysen Ave., Newark 5, N. J.

RELAYS, Horn and Light

American Motor Products Co., Fond du Lac, Wis.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
Electra Mfg. Co., 800 N. 21st St., Independence, Kans.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb. (Horn.)
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
New York Coil Co., 42 Second Ave., Phoenixville, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, L. I., N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Light.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Light.)

REMOVERS, OIL AND GREASE. See Solvents, Oil Carbon and Grease Removing

REMOVERS, Paint, Enamel and Varnish

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
American Chemical Paint Co., Brookside Ave. & Reading R. E., Ambler, Pa.
American Varnish Co., 1138 N. Branch St., Chicago 22, Ill.
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. (Sole distributors, Kleen Strip Co., Box 3565, Memphis 6, Tenn.)
Brown Co., Andrew, 5431 District Blvd., Los Angeles 22, Calif.

Bruhin & Co., 2939 Columbia Ave., Indianapolis 7, Ind.
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Downey, Calif.
Celco Corp., 119 E. 42nd St., New York 17, N. Y.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Oil base paint.)
Continental Car-Na-Var Corp., Brazil, Ind.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Curran Corp., S. Canal St., Lawrence, Mass.
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill.
Delta Chemical Co., 682 S. Cox St., Memphis 1, Tenn.
Detrox Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Ditler Color Div. of Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Fine Organus, Inc., 211 E. 19th St., New York 3, N. Y.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. (Hot.)
Helper Paint Removing Service, Inc., Cleveland, Ohio.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.
Kelite Products Corp., 1250 N. Main St., Los Angeles, Calif.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lea Mfg. Co., 16 Cherry Ave., Waterbury 20, Conn.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.
Modene Paint Co., 305 Eastern Ave., Chelsea 50, Mass.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. (Paint and varnish.)
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif.
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y.
Paint Remover Chemicals Corp., 2440 Gilbert Ave., Cincinnati 6, Ohio.
Penetone Co., 74 Hudson Ave., Tenafly, N. J.
Permo Products Corp., 1629 Platte St., Denver 2, Colo.
Pioneer Chemical & Mfg. Co., 9812 Meech Ave., Cleveland 5, Ohio.
Practical Products Co., 2632 Niccollet Ave., Minneapolis 3, Minn.
Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Rossaul Co., 170 Fifth Ave., New York 10, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Standard-Tock Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Tarco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Wilbur & Williams Co., 130 Lincoln St., Brighton, Mass.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

RESISTORS, Ignition

Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.

RESURFACERS, Floor

Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio.
Stonhard Co., 1306 Spring Garden St., Philadelphia 23, Pa.

RETAINERS, Oil and Grease

Acadia Div., Western Felt Works, 4035 Ogden Ave., Chicago 23, Ill. (Synthetic rubber.)



Gilbert W. Fassett, owner, Owl Taxi Co., Bend, Oregon

"Union Oil lubricants can't be beat for fleet use"

"During the past six years I've used Union Oil products exclusively in the Owl Taxi fleet with outstandingly good results. I swear by them.

"T5X Motor Oil gives us up to 200,000 miles between engine overhauls and Union's Unoba Grease has extended chassis life from 125,000 miles to more than 350,000 miles on some units. Take it from an old-timer in the business, Union Oil lubricants can't be beat for fleet use."

There are innumerable fleet owners from Alaska to Mexico who, like Mr. Fassett, swear by Union Oil lubricants. Try them in your equipment and you'll see

why. Both T5X, the *amazing* purple oil and Unoba barium-lithium base *multipurpose* grease are immediately available from your nearby Union Oil representative.

76 UNION OIL COMPANY
OF CALIFORNIA

Los Angeles: Union Oil Bldg. • New York: 45 Rockefeller Plaza • Chicago: 1612 Bankers Bldg. • Philadelphia: Eastwick Ave. & Edgewood St. Dallas: 313 Fidelity Union Life Bldg. • Kansas City, Mo.: 612 W. 47th St. New Orleans: 644 Nat'l Bank of Commerce Bldg. • Boston: 214 Harvard Ave.

BENDIX-WESTINGHOUSE

3-OPTIONS PROGRAM FOR COMPLYING WITH NEW SAFETY REGULATIONS



**New Bendix-Westinghouse
Tractor Trailer Protection System
developed to meet
new safety regulations
offers three different modifications
for Bendix-Westinghouse
Air Brake Equipment**

OPTION 1—CHANGEVER PLAN

In this plan you simply change over your old tractor protection valve to a new valve specifically designed to meet the new regulations. The new valve is built with a reversible mounting pad which provides, when reversed, for the same approximate location of the trailer emergency and service lines. This option carries the regular Bendix-Westinghouse Warranty.

OPTION 2—REPAIR EXCHANGE PLAN

You simply exchange your present tractor protection valve for a valve of the same type which has been modified at the factory in accordance with the new regulation. This provides you with a thoroughly dependable rebuilt and tested valve having the same operation as the latest type valve and which carries the regular Bendix-Westinghouse Warranty.

OPTION 3—DO-IT-YOURSELF PLAN

Option three provides a Bendix-Westinghouse field modification kit for those of you having *proper facilities for rebuilding and testing* and who desire to modify your own valves. This kit consists of all the internal parts used in the latest-design tractor protection valve.

How the New System Works

The two main parts of this system are the dash mounted control valve with normal and emergency positions, which has been standard in the Bendix-Westinghouse line since 1953 and the new tractor protection valve.

With the dash control valve lever in the normal position, the driver maintains complete unrestricted control of the service brakes as long as normal operating conditions prevail.

Should an emergency situation develop, the driver at his own option can flick the control lever to the emergency position. This actuates the tractor protection valve, closing both service and emergency lines at the tractor, and at the same time vents the trailer emergency line producing an emergency braking application on the trailer.

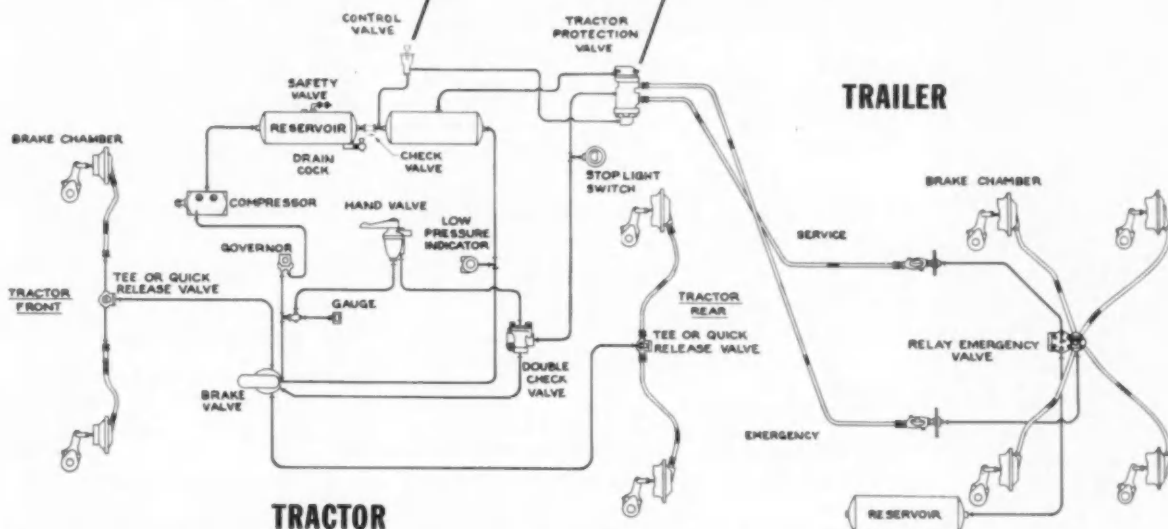
Tractor protection valve also works automatically

However, if for any reason there should be an abnormal reduction of tractor reservoir pressure without the driver's knowledge, the tractor protection valve will automatically vent the trailer emergency line, producing an emergency application on the trailer when the tractor reservoir pressure is reduced to a predetermined level.

Dash Mounted Control Valve



Tractor Protection Valve



TRACTOR

TRAILER

Typical installation of Bendix-Westinghouse Air Brake Equipment featuring the new tractor trailer protection system. Optional check valve location; may be between two reservoirs or in front of them; must be located in front of single, reservoir installation.

Bendix-Westinghouse
AUTOMOTIVE AIR BRAKE COMPANY



General offices and factory—Elyria, Ohio. Branches—Berkeley, Calif. and Oklahoma City, Okla.

Trailer air brake system charged automatically

A big advantage with the Bendix-Westinghouse system is that, with the dash control valve in the normal position, the trailer air brake system can be completely charged as soon as the lines are connected, without the need for the driver to hold the control valve in position for the full time required for charging.

Two types of check valves Bendix-Westinghouse also meets the provision in the new regulations regarding a check valve to protect tractor reservoir pressure by offering a complete line to meet your needs. Metal seated valves are available for installation in the compressor discharge line or between reservoirs, while rubber seated valves are available for installation between reservoirs only.

Offer new type relay emergency valve While the regulations do not require any change in Bendix-Westinghouse Relay Emergency Valves installed on trailers built previous to August thirty-first, 1956, all of the latest type Bendix-Westinghouse Relay Emergency Valves, when submitted for repair exchange, will be automatically modified at the regular repair exchange price. Old type Bendix-Westinghouse Relay Emergency Valves may be exchanged for the new, modified type through a changeover plan available at all Bendix-Westinghouse Distributors.

Old type Bendix-Westinghouse Relay Emergency Valves may be exchanged for the new, modified type through a changeover plan available at all Bendix-Westinghouse Distributors.

rims to rust preventives

CCJ'S PRODUCT DIRECTORY

RETAINERS—continued

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa. (Water pump.)
Booth Felt Co., 476 19th St., Brooklyn 15, N. Y. (Felt.)
Brummer Mfg. Corp., 1324 McKinley St., Chicago Heights, Ill.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chicago Rawhide Mfg. Co., 1301 Elston Ave., Chicago 22, Ill.
Copeland-Gibson Products Corp., 7451 W. Eight Mile Rd., Detroit, Mich.
Crane Packing Co., 6435 Oakton St., Morton Grove, Ill.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Graphite Metallizing Corp., 1080 Nepperhan Ave., Yonkers 3, N. Y.
Graton & Knight Co., 356 Franklin St., Worcester 4, Mass. (Synthetic, to order.)
Kickhoefer Mfg. Co., 901 S. 2nd St., Milwaukee 4, Wis.
Krug Co., North St., Barnum Court, Danbury, Conn.
Lothrop Co., Frank B., 81 River St., South Acton, Mass.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Mechanex Corp., 1144 Broadway, Denver, Colo.
Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich.
Muskegon Piston Ring Co., Muskegon Div., Sixth & Alpha Sts., Muskegon, Mich.
National Motor Bearing Co., Inc., Redwood City, Calif. (Seals.)
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
Rodie Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Standard Seal Co., Van Wert, Ohio.
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind.
Trautner Mfg. Co., 876 University Ave., St. Paul 4, Minn.
Universal Oil-Seal Co., 34 W. Kennett Rd., Pontiac, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Western Felt Works, 4035 Ogden Ave., Chicago 23, Ill. (Felt.)

RIMS, Wheel

Cleveland Welding Co., W. 117th St. & Berea Rd., Cleveland 7, Ohio.
Firestone Steel Products Co., 1600 Firestone Parkway, Akron 10, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio. (Bus and truck.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich.

RINGS, Piston

American Hammered Automotive Replacement Div., 2001 Sanford St., Muskegon, Mich.
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
Cord Piston Ring Mfg. Co., 1351 S. Olive St., Los Angeles 15, Calif.
Double Seal Ring Co., 2065 Montgomery St., Ft. Worth, Tex.
Gill Piston Ring Co., 1536 E. 75th St., Chicago 17, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Hansgler Mfg. Co., 983 E. Raymond Ave., Pasadena, Calif.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis 10, Mo.
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.

Muskegon Piston Ring Co., Muskegon Div., Sixth & Alpha Sts., Muskegon, Mich.
Pacific Piston Ring Co., 1410 S. Los Angeles St., Los Angeles 15, Calif.
Perfect Circle Corp., 562 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Republic Engr. & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.
Richmond Ring Co., Souderton, Pa.
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Simplex Piston Ring Mfg. Co., 12301 Bennington Ave., Cleveland 11, Ohio.
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind. (Steel or bronze.)
Superior Piston Ring Co., 6425 Epworth Blvd., Detroit 10, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.
Valv-Lite Piston Ring Co., Shepherd St., Toledo 1, Ohio.
Wausau Motors Parts Co., 1003 Harrison Blvd., Wausau, Wis.
Wel-Ever Piston Ring Co., 1701 Speilbusch Ave., Toledo 1, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wilkening Mfg. Co., 2090 S. 71st St., Philadelphia 42, Pa.

RINGS, PISTON EXPANDERS. See Expanders, Piston Ring

RIVETERS

Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Portable pneumatic.)
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.)
Danyl Machines Specialties, Inc., 2100 Laramie Ave., Chicago 50, Ill.
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.
Grant Mfg. & Machine Co., 90 Sillman Ave., Bridgeport 5, Conn.
Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill. (Pneumatic and hydraulic.)
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Hydraulic.)
High Speed Hammer Co., 313 Norton St., Rochester 5, N. Y.
Hydraulic Press Mfg. Co., Mount Gilead, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. (Portable pneumatic.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Lemert Eng. Co., 201 E. Jefferson St., Plymouth, Ind.
Lemco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.
Milford Rivet & Machines Co., Post Rd., Milford, Conn.
National Rivet & Mfg. Co., Waupun, Wis.
Nugler Co., F. A., 1748 Berkeley St., Santa Monica, Calif. (Ring gear.)
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill. (Pneumatic.)
Robinson Products, Inc., 16550 Wyoming Ave., Detroit 21, Mich.
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich.

RIVETS, Blind

Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
du Pont de Nemours & Co., E. I., Explosives Dept., Wilmington 98, Del. (Industrial.)
Goodrich Co., Industrial Products Div., B. F., 500 S. Main St., Akron, Ohio.
Huck Mfg. Co., 2480 Bellevue Ave., Detroit 7, Mich. (Aluminum and steel.)
South Chester Corp., Southco Div., 228 Industrial Highway, Wester, Pa.
Townsend Co., New Brighton, Pa.

RODS, CONNECTING. See Connecting Rods

RODS, Welding

Aeme Electric Welder Co., 2618 Fruitland Ave., Los Angeles 58, Calif.
Air Reduction Sales Co., Secony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.

Alloy Rods Co., W. Market St., York, Pa.
All-State Welding Alloys Co., 249 Ferris Ave., White Plains, N. Y.
Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
American Brass Co., 414 Meadow St., Waterbury 20, Conn.
American Steel & Wire Div., United States Steel Corp., Rockefeller Bldg., Cleveland 13, Ohio.
Ampeco Metal, Inc., 1737 S. 38th St., Milwaukee 15, Wis. (Bronze.)
Atlantic Steel Co., 16th & Mecaslin St., Atlanta, Ga.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.
Crucible Steel Co. of America, 535 Smithfield St., Pittsburgh, Pa.
Dockson Corp., 3839 Washburn Ave., Detroit 8, Mich.
Eutectic Welding Alloys Corp., 40-40 172nd St., Flushing, N. Y.
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis.
Haynes Stellite Co. (a div. of Union Carbide & Carbon Corp.), 725 S. Lindsay St., Kokomo, Ind. (Hard facing.)
Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.
International Nickel Co., 67 Wall St., New York 5, N. Y. (Cast iron.)
Krems & Co., 669 W. Ohio St., Chicago 10, Ill.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld." ("Unionweld" coiled.)
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind. (Resistance.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Revere Copper and Brass, Inc., 230 Park Ave., N. Y. 17, N. Y. (Copper, brass and bronze.)
Sight Feed Generator Co., West Alexandria, Ohio.
Smith Corp., A. A., 27th & Hopkins Sts., Milwaukee 1, Wis.
Speer Carbon Co., St. Marys, Pa.
Titan Metal Mfg. Co., Bellefonte, Pa.
Wall Colmonoy Corp., 19345 John R St., Detroit 3, Mich.
Welding Equipment & Supply Co., 223 Leib St., Detroit 7, Mich. (Tool steel; alloy.)
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

ROTORs, DISTRIBUTORS. See Parts, Ignition

RUB-RAILS, PRESSED STEEL. See Rails, Rub, Pressed Steel

RUST PREVENTIVES, Cooling System

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Alsop Products Co., 154 Clifford St., Newark 5, N. J.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
American Sand-Banum Co., Meadowbrook Natl. Bank Bldg., Freeport, N. Y.
(Colloidal tablets.)
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Butler Eng. Co., 2610 Rousseau St., New Orleans 11, La. (Butler De-Scaler.)
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.
Castorol Products, Inc., 145 Alexander St., Yonkers, N. Y.
Chicago Hydraulic Oil Co., 371 E. 116th St., Chicago 28, Ill.
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.

A TELEPHONE EXCHANGE ON WHEELS!



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and Bell System Companies Use Highway Trailers!



Interior view of the Michigan Bell Mobile C.D.O., installed at Garden City, Mich.

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This remarkable new development typifies the Bell System's reputation for advance planning and greater public service—and because they use Highway Trailers, Bell System companies will get long, trouble-free service life and dependable performance on the job, no matter what the task.

Highway's impressive performance record backs up that confidence!

*With Highway Trailers . . . the most important feature is **PERFORMANCE!***

HIGHWAY TRAILER COMPANY

HEADQUARTERS: EDGERTON, WISCONSIN

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• Public Utility Bodies • Earth-Boring Machines • Pole and Cable Reel Trailers
• Winches • Power Take-offs • Service Accessories

SALES AND SERVICE IN PRINCIPAL CITIES



sand to scrapers

CCJ'S PRODUCT DIRECTORY

RUST PREVENTIVES—continued

Draw & Co., E. F., 15 E. 26th St., New York, N. Y.
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Hollingshead Corp., R. M. 840 Cooper St., Camden, N. J.
Homestead Valve Mfg. Co. (Hypresure Jenny Div.), Narrows Run Rd., Corapolis, Pa.
Hood Kenning Co., 305 S. Pennsylvania Ave., Greensburg, Pa.
Inseultor, Inc., P. O. Box 146, Holly, Mich.
Kelite Corp., 1250 No. Main St., Los Angeles 12, Calif.
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
L & R Mfg. Co., 577 Elm St., Arlington, N. J. (Removing.)
Lenk Mfg. Co., 30-38 Cummington St., Boston 15, Mass. (Preventing.)
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City, N. Y.
Motrol Kool Products Co., 505 Buttes Ave., Columbus 8, Ohio.
National Carbon Co., 30 E. 42nd St., New York 17, N. Y.
Oakite Products, Inc., 19 Rector St., New York, N. Y.
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich.
Pennsylvania Refining Co., 2686 Lisbon Road, Cleveland 4, Ohio.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Radiator Seal Co., 120 Stutman St., Council Bluffs, Iowa.
Radiator Specialty Co., 1400 W. Ind Blvd., Charlotte 1, N. C.
Rust Master Chemical Co., 50 Creighton St., Boston, Mass.
Service Supply Co., 115 7th St., Denver 2, Colo.
Sinclair Refining Co., 600 Fifth Ave., New York, N. Y.
Sodrin Corp., 2746 McGee Traffic Way, Kansas City, Mo.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 D. 30th St., New York 1, N. Y.
Stewart-Warner Corp., Alemtie Div., 1826 Diversey Pkwy., Chicago 14, Ill.
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Chemical & Supply Co., 918 E. 5th St., Kansas City 6, Mo.
V-O Mfg. Co., 13245 Sherman Way, Hollywood, Calif.
Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa.
Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill.
Water Treatment Co. of America, 1159 Hodgkiss St., Pittsburgh 12, Pa.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
"X" Laboratories, Inc., 25 W. 48th St., New York 19, N. Y.
Zecol, Inc., 155 E. Kilbourn Ave., Milwaukee 1, Wis.

SAND, Traction Sander

Campbell Sons' Corp., Harry T. Campbell Bldg., Towson, Md.
Keystone Granite Quarry, Old Zionville, Pa.

SANDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Aro Equipment Corp., Bryan, Ohio.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44 St., New York, N. Y.

Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Cummins Portable Tools, Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. (Reciprocating.)
Dremel Mfg. Co., 2420 18th St., Racine, Wis.
Jones Motrola Corp., 132 Fairfield Ave., Stamford, Conn.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
National Air Sander, Inc., 2810 Auburn St., Rockford, Ill.
Nedco Co., 27 Jones Rd., Waltham, Mass.
Portable Elect. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.
Rotor Tool Co., 23690 Lakeland Blvd., Cleveland 32, Ohio.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill. "SkillSander." (Belt and disc.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
Speed Way Mfg. Co., 1834 S. 62nd Ave., Cicero 50, Ill.
Sundstrand Machine Tool Co., Pneumatic Div., 1020 Ninth Ave., Rockford, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.
Weller Electric Co., 898 Packer St., Easton, Pa.
Wen Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.

SANDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (Bolt and disc types.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Keel Roller Bit Co., 5125 Clinton Dr., Houston 1, Tex.
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. (Reciprocating.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
National Air Sander, Inc., 2810 Auburn St., Rockford, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.
Rotor Tool Co., 23690 Lakeland Blvd., Cleveland 32, Ohio.
Thor Power Tool Co., 175 State St., Aurora, Ill.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

SANDPAPER

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Behr-Manning Corp., Troy, N. Y.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Clover Mfg. Co., Norwalk, Conn.
Mid-West Abrasive Co., 610 S. Washington St., Owaso, Mich.
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.
Sandusky Abrasive Wheel Co., Park & Borden, Sycamore, Ill.

SAWS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cummins Portable Tools, Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
Dremel Mfg. Co., 2420 18th St., Racine, Wis.
Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn.
Greene & Sons, N. R., 3800 Lincolnway W., South Bend, Ind. (Hack saw attachment.)

Kett Tool Co., 6 E. Third St., Cincinnati 2, Ohio.
Liipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. (Hack.)
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill. (Attachment, for sawing or filing.)
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Portable Electric Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.
Producers and Distributors, Inc., 1321 Hanover Ave., Allentown, Pa.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Speed Way Mfg. Co., 1834 S. 62nd Ave., Cicero 50, Ill.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Attachment, for sawing and filing.)
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
Wren Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.
Wyzenbeek & Staff, Inc., 223 N. California Ave., Chicago 12, Ill. (Attachments for sawing or filing.)

SAWS, Portable Pneumatic

Producers and Distributors, Inc., 1321 Hanover Ave., Allentown, Pa.
Thor Power Tool Co., 175 State St., Aurora, Ill.

SAWS, Power Hack

Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Maquoketa Co., Clark & Maple Sts., Clinton, Iowa.
Peerless Machine Co., 1600 Junction Ave., Racine, Wis.
Racine Hydraulics & Machinery, Inc., 2000 Albert St., Racine, Wis.
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.

SCALES, Weighing, Dial Type

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cenco Industries, Inc., First National Bank Bldg., Gallon, Ohio. (Trailer kingpin weigher.)
Chatillon & Sons, John, 85-93 Cliff St., New York 38, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.
Dillon & Co., W. C., 14620 Keswick St., Van Nuys, Calif.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 1, Ohio.

SCALES, Weighing, Platform Type

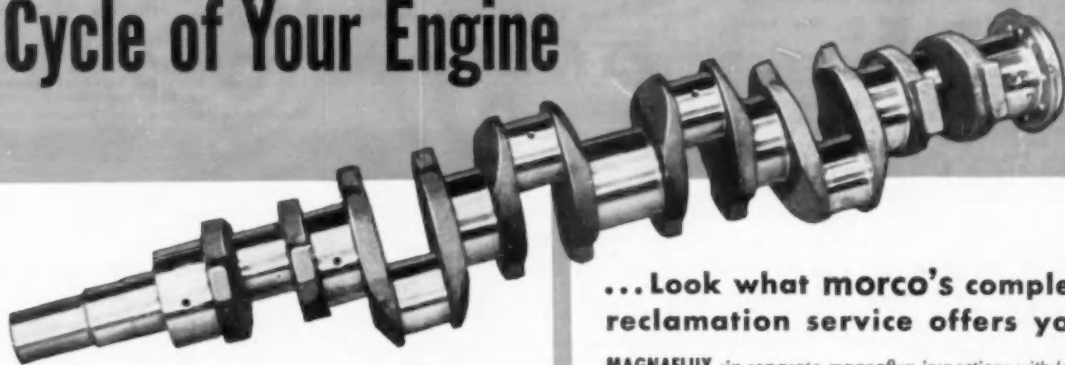
Bonded Scale & Machine Co., 83 Kingston St., Columbus, Ohio.
Buffalo Scale Co., 46 Letchworth St., Buffalo 13, N. Y.
Chatillon & Sons, John, 85-93 Cliff St., New York 38, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.
Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 8, Ohio.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 1, Ohio.

SCRAPERS, Bearing

Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Millers Falls Co., Greenfield, Mass.
Osborn & Co., C. S., Jersey & Second Sts., Harrison, N. J.

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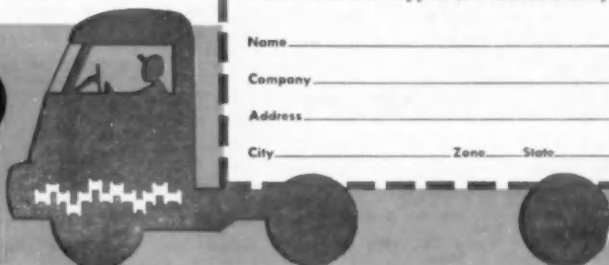
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CCJ'S PRODUCT DIRECTORY

SCRAPERS, Carbon

Aircraft Specialties, Inc., Howard & Higley Sta., Lapeer, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Herbert Div. Bingham-Herbrand Corp., Lake & Stone Sta., Fremont, Ohio.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926 Milwaukee, Ore.
Proto Tools, 2209 Sante Fe Ave., Los Angeles 54, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Rineck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8046 23th Ave., Kenosha, Wis.
Wilke Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

SCREW DRIVERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 6316 W. State St., Milwaukee 8, Wis.
Skilaw, Inc., 5033 Elston Ave., Chicago 30, Ill.
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.

SCREW DRIVERS, Portable Pneumatic

Aro Equipment Co., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1338 Fulton St., Grand Haven, Mich.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Master Pneumatic Tool Co., 149 Peniman Rd., Orwell, Ohio.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
SEALERS FOR CASTING REPAIRS, See Cement, Cast Iron

SEALS, OIL & GREASE, See Retainers, Oil and Grease

SEATS, Bus

American Seating Co., 9th St. & Broadway, Grand Rapids, Mich. (Reclining.)
American Wicker Works Co., 1312 Harmon Pl., Minneapolis 8, Minn.
Amsbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich.
General Seating Co., 220 Main St., Topton, Pa.
National Seating Co., 167 Park Ave. E., Mansfield, Ohio.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

SEATS, Truck

(See also Cushions, Seat)

American Seating Co., 9th St. & Broadway, Grand Rapids, Mich.
American Wicker Works Co., 1312 Harmon Pl., Minneapolis 8, Minn.

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis. (Spring suspension.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Comfort Cushion Co., 6062 Loraine Ave., Detroit 8, Mich.
General Seating Co., 220 Main St., Topton, Pa.
Goodyear Tire & Rubber Co., Automotive Products Dept., E. Market St., Akron 16, Ohio.
Ionia Mfg. Co., Div. of Mitchell-Bentley Corp., 121 S. Dexter St., Ionia, Mich.
Milaco Mfg. Co., 2738 N. 33rd St., Milwaukee 45, Wis.
Milaco Mfg. Co., Dept. T., 2758 N. 33rd St., Milwaukee, Wis. (Foam rubber.)
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Spring suspension.)
National Seating Co., 167 Park Ave. E., Mansfield, Ohio.
Perma Seating Co., 8800 Kinman Rd., Cleveland 4, Ohio.
Pneumatic Seat Co., 841 Washington Ave., Rochester 17, N. Y.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

SEATS, Valve

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Allied Motor Parts Co., Detroit 1, Mich.
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co., Saginaw Div., 9771 French Rd., Detroit 15, Mich.
Haynes Stellite Co. (a div. of Union Carbide & Carbon Corp.), 725 Lindsay St., Kokomo, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.
Lee Co., K. O. Congress at First Ave., S. E. Aberdeen, S. D.
Parts Processing Corp., 1499 E. Michigan Ave., Battle Creek, Mich.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Peterson Welding Laboratories, 1423 Virginia St., Kansas City 6, Mo. (Screw-in type.)
Rich Mfg. Corp., Battle Creek, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio. (Cast iron.)
Wausau Motor Parts Co., 1093 Harrison Blvd., Wausau, Wis.
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

SHAFTING, Flexible

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Assemblies.)
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Barbour-Stockwell Co., 205 Broadway, Cambridge 39, Mass.
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Electric Auto-Lite Co., Toledo 1, Ohio.
Elliott Mfg. Co., 350 State St., Binghamton, N. Y.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y. (Speedometer.)
Jarvis Corp., Middletown, Conn.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Speedometer; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
Speedometer Service Co., 151 Forest St., Montclair, N. J.
Stewart Mfg. Corp., F. W., 4311 N. Ravenswood Ave., Chicago, Ill.

Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.
Stow Mfg. Co., 443 State St., Binghamton, N. Y. (Heavy duty.)
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago 7, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.
Walker-Turner Div., Kearney & Trecker Corp., 900 North Ave., Plainfield, N. J.
Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y. (Speedometer.)
Wyzenbeek & Staff, Inc., 223 N. California Ave., Chicago 12, Ill.

SHAFTS, Power Take-off

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind.
Stow Mfg. Co., 443 State St., Binghamton, N. Y.

SHAFTS, Propeller

(Shaft only; for universal joints—see Universal Joints)

Blood Bros. Machine Div. Rockwell Spring & Axle Co., Allegan, Mich.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 11, Ohio.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Detroit Bevel Gear Co., 8139 Joa Campan Ave., Detroit 11, Mich.
Detroit Harvester Co., Paris Products Div., Paris, Ky.
Detroit Universal Div., Chrysler Corp., 6455 Kinsley Ave., Dearborn, Mich.
Dittmer Gear & Mfg. Corp., 198 Grand St., Lockport, N. Y.
Lemco Products, Inc., 6490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Mechanics Universal Joint Div., Borg-Warner Corp., 2020 Harrison Ave., Rockford, Ill.
Morse Chain Co., Ithaca, N. Y.
Neapco Products, Inc., South & Cross Sta., Pottstown, Pa.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.
Spencer Mfg. Co., N. Main St., Spencer, Ohio.
Steel and Tube Div., Republic Steel Corp., 224 E. 121st Cleveland 8, Ohio.
Timken-Detroit Axle Div., Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
U. S. Axle Co., Water St., Pottstown, Pa.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

SHAFTS, Transmission

Cleveland Hone & Mfg. Co., 8816 Harkness Rd., Cleveland 6, Ohio.

SHEARS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Jefferson Engrg. & Mfg. Co., 269 Walker St., Detroit 7, Mich.
Millers Falls Co., Greenfield, Mass.
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.

SHIMS, Axle Caster

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa. (Bronze.)
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Bennett, Inc., 1408 Jerome St., Niles, Mich.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.
Jibo Tool Co., 130 N. Meade St., Wichita 2, Kan.
Kwik-Ezee, Inc., 17-23 W. 60th St., New York 28, N. Y.
Lock & Co., R. J., 843 N. Gay St., Baltimore, Md.
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago 1, Ill.
Merrill Engrg. Laboratories, 1230 Lincoln St., Denver 3, Colo.



NEW GET-UP-AND-GO IN HEAVY HAULING

CHEVROLET POWERMATIC

selects the right gear automatically—saves brakes on downgrades



A Touch of a Finger Does It! The POWERMATIC Range Selector is positioned perfectly, to the right of the driver, for simple, finger-tip operation. For all normal driving, the Selector is left in *Drive* range. Hauling in heavy traffic and in the mountains, *Intermediate* range is used. On steep grades or rough ground, *Low* range is used, providing multiplication of engine torque up to 14.8 times.

New get-up-and-go in heavy-duty hauling is yours with POWERMATIC, *exclusively* available in Chevrolet Task-Force trucks from 15,000 to 32,000 pounds GVW.

This integrated torque converter-transmission unit, designed and built by Allison Division, utilizes the principles of Allison's famed TORQMATIC DRIVES to make heavy hauling safer, more efficient, more profitable.

POWERMATIC eliminates the burden of *continuous* gearshifting on hills or in traffic. A quick touch of a finger selects the range—and the gearshifting is done automatically to meet the exact load requirement—leaves the driver free to concentrate on the road.

POWERMATIC's unique design also provides direct-drive highway cruising, with the torque converter locked up. This saves engine revolutions, helps assure top fuel economy.

Safer downhill hauling

And only POWERMATIC has the built-in hydraulic RETARDER for downhill braking. Service brakes need only be used for snubbing around turns and to bring the vehicle to a complete stop. Speed on downgrades can be controlled by the hydraulic RETARDER alone—saving wear and tear on brake linings.

POWERMATIC gives medium- and heavy-duty trucks a sparkling new kind of performance that beats anything you've ever seen. It's so different you have to drive one to fully appreciate it. See your Chevrolet dealer for a demonstration today!



Allison TORQMATIC DRIVES

Allison Division of General Motors, Indianapolis 6, Indiana



shims to signals

CCJ'S PRODUCT DIRECTORY

SHIMS—continued

Morgan Wheel & Equipment Co., 2007 St. Mary's Ave., Omaha 2, Neb.
Perfect Equipment Corp., 804 W. Morgan St., Kokomo, Ind.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind.
Vanco Products, Inc., 15330 Brookpark Rd., Cleveland 11, Ohio.

SHIMS, Bearing Adjusting

Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.

SHIMS, Brake Lining

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Atlas Asbestos Co., North Wales, Pa.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Fibre).
Gatke Corp., 225 N. La Salle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

SHIMS, Brass and Copper

Aeme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York, N. Y. (Brass).
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kickhafer Mfg. Co., 901-903 S. Second St., Milwaukee 4, Wis.
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland 10, Ohio.
Laminated Shim Co., 62 Union St., Glenbrook, Conn.
McCord Corp., Ripelle at E. Grand Blvd., Detroit 11, Mich.
National Motor Bearing Co., Broad St. at National Ave., Redwood City, Cal. (Brass).
Rotax Mfg. Co., 175 Ridge St., Newark 4, N. J. (Brass stock).
Standard Seal Co., Van Wert, Ohio.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. (Brass).
Whitehead Stamping Co., 1461 W. Lafayette Blvd., Detroit 16, Mich.
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

SHIMS, Laminated

Rialdell Mfg. Co., 1350 Coronado Ave., Long Beach 4, Calif.
Federal-Mogul Service Div. of Federal-Mogul-Bower Bearings, Inc., 11031 Shoemaker Rd., Detroit 13, Mich.
Gasket Packing & Specialty Co., 3 Waverly Pl., New York 3, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Laminated Shim Co., 62 Union St., Glenbrook, Conn. (Brass and Steel).
National Motor Bearing Co., Broad St. at National Ave., Redwood City, Calif.
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

SHIMS, Steel

Aeme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.
Almetal Screw Products Co., 821 Stewart Ave., Garden City, N. Y. (Stainless).
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. (Rear axle end play).
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich.
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.

Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland 14, Ohio.
Laminated Shim Co., 6208 Union St., Glenbrook, Conn.
National Motor Bearing Co., Broad St. at National Ave., Redwood City, Calif.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Standard Supply Co., 5920 Bryant St., Pittsburgh 6, Pa.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.

SHOCK ABSORBERS

Briggs Shock Absorber Co., 1148 Euclid Ave., Cleveland, Ohio. (Hydraulic).
Delco Products Div., General Motors Corp., 329 E. First St., Dayton, Ohio. (Hydraulic).
Gabriel Co., 1148 Euclid Ave., Cleveland 15, Ohio.
Heckethorn Mfg. & Supply Co., 239 S. Prince St., Littleton, Colo. (Licensees).
Houdaille Industries, Inc., Hydraulics Div., 537 E. Delavan Ave., Buffalo 11, N. Y.
Monroe Auto Equipment Co., 1425 E. First St., Monroe, Mich. (Hydraulic).
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Hydraulic).
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 8, Ohio.

SHOCK ABSORBER FLUID, See Fluid, Hyd. Brake & Shock Absorber

SHOES, Brake

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (Lined).
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Morrison Products Div., General Motors Corp., Dayton, Ohio.
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. (Fibre).
Pick Mfg. Co., West Bend, Wis. (Lined and unlined).
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Thermoid Co., 290 Whitehead Rd., Trenton 6, N. J.
Triplewear, Inc., 533 40th St., Union City, N. J.

SHUTTERS, Radiator

(See also Covers, Radiator)

Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.
Cadillac Mfg. Co., 175 Race St., Coldwater, Mich.
Hardy Mfg. Corp., W. Pearl St., Union City, Ind.
Kysor Heater Co., Haynes St., Cadillac, Mich.
Minneapolis-Honeywell Regulator Co., Transportation Div., 2747 Fourth Ave. S., Minneapolis 8, Minn.

SIGNALS, Direction Indicating

American Automatic Devices Co., 590 S. Throop St., Chicago 7, Ill.
Anthes Force Oilier Co., Ft. Madison, Iowa.
Arrow Safety Device Co., Mt. Holly, N. J. (Also flashing stop lights).
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill. ("Pashinder," also "Alco" conversion units for converting parking, stop and tail lights into direction indicating signals).
Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Ohio.
Boler Corp., S. Main St., Cedar Falls, Iowa.
Carlton Lamp Co., 736 S. 13th St., Newark 3, N. J.
Carolina Metal Products, Inc., 2222 South Blvd., Charlotte, N. C.
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio.
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.

Edward's Air Hose Bracket Co., P. O. Box 860, Sapulpa, Okla.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Also conversion kits).
Grote Mfg. Co., Inc., Lafayette & Grandview Aves., Bellevue, Ky. (Also combination stop, tail and license brackets).
Guide Lamp Div. General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Industrial Scientific Co., P. O. Box 494, Fresno 9, Calif. (Semaphores type).
K-D Lamp Co., 1910 Elm St., Cincinnati, 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Miro-Flex Co., 1824 E. 2 St., Wichita 7, Kan.
Parker Products, Inc., 1415 Washington Ave. S., Minneapolis 4, Minn.
Rayl Mfg. Co., 217 5th St., Oakland 7, Calif.
Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (Stop semaphores, for school buses).
S. & M. Lamp Co., 119 W. 36th Pl., Los Angeles 54, Calif.
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.
Signal-Stat Corp., Signal-Stat Bldg., Kent Rd., Brooklyn 11, N. Y. (Bus and truck).
Sinko Mfg. & Tool Co., 3135 W. Grand Ave., Chicago 22, Ill. (Auxiliary).
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Also stop lights and combination stop and tail and conversion kits).
Speaker Corp., J. W., 3059 N. Well St., Milwaukee 12, Wis.
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 21, Pa.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 88, N. Y.
Vas-O-Lite Signal Co., 4680 Rubidoux Ave., Riverside, Calif. (Semaphores for trucks and trailers).
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Truck; also conversion units for converting parking and tail lights into flashing signals).

SIGNALS, Gasoline Tank

Scully Signal Co., 174 Green St., Melrose 76, Mass.

SIGNALS, Low Air Pressure, Brakes

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Berg Safe-Air Corp., 18 E. Eighteenth St., Chicago 16, Ill.
Cole-Harsee Co., 20 Old Colony Ave., Boston 27, Mass.
Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich.
Monroe Standard, Inc., P. O. Box 366, Galion, Ohio. (Visual).
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

SIGNALS, Low Brake Fluid

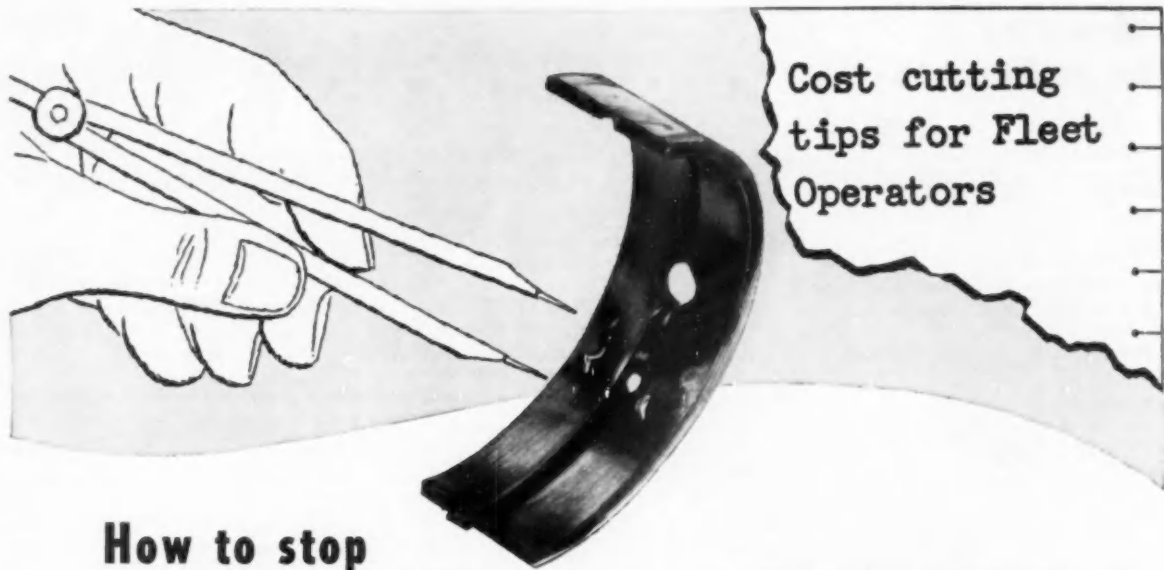
Arlington Industries, Inc., 79 Jefferson St., N. Y. 4, N. Y.
General Metal Products Corp., Moore-Eastwood Div., 171 S. Mulberry St., Wilmington, Ohio.

SIGNALS, Low Oil Pressure, Engine

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.).
Kysor Heater Co., Haynes St., Cadillac, Mich.
Moto-Gard Co., 1104 W. Cabarrus St., Raleigh, N. C. (Also stops engine).
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

SIGNALS, Low Water Temperature

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.).



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Kysor Heater Co., Haynes St., Cadillac, Mich.
Moto-Gard Co., 1104 W. Calhoun St., Kalamazoo, N. C. (Also stops engine.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Synchro-Start Products, Inc., 8151 N. Ridgeway, Skokie, Ill.

SIRENS, HORN, See Horn Sirens

SIX WHEEL ATTACHMENTS, See Axle Units, Third, for Trucks

SLEEPER CABS, See Cabs, Truck Body

SLEEVES, Cylinder

Allied Motor Parts Co., Detroit 1, Mich.
Aluminum Industries, Inc., 2435 Beekman St., Cincinnati 25, Ohio.
American Hammered Automotive Replacement Division of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Centrifugally cast.)
Centrifugal Foundry Co., 1367 W. Sherman Blvd., Muskegon, Mich.
Detroit Sleeve Mfg. Co., 9373 Hubbell St., Detroit 28, Mich.
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif.
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.
Frank Foundries Corp., 2020 Third St., Moline, Ill.
Hub City Iron Co., 218 First Ave., S.W., Aberdeen, S. D.
Janney Cylinder Co., 7425 State Rd., Phila. 36, Pa. (Special to order.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylon Products, Inc., U. S. 12, Bridgman, Mich.
Ohio Piston Co., 5340 Hamilton Ave., Cleveland 14, Ohio.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Shenango-Penn Mold Co., Centrifugal Castings Div., Dover, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio. (Wet and dry assemblies.)
Versnick Mfg. Co., Madisonville, Ky. (Dry type.)
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.

SLUDGE REMOVING COMPOUNDS, CRANKCASE, See Compounds, Crankcase Sludge Removing

SNOW FLOWS

(See also Trucks, Diesel & Trucks, Gasoline)

Badger Machine Co., 1124 W. 5th St., Winona, Minn.
Bros. Wm. Boiler & Mfg. Co., 1057 10th Ave., S. E., Minneapolis 14, Minn.
Burch Corp., Thomas St., Crestline, Ohio.
Davenport-Besler Corp., 2305 Rockingham Rd., Davenport, Iowa. ("Frink Sno-Flows," (Western United States).)
Donnell Hydraulic Co., Garden Prairie, Ill. (Hydraulic conversion unit.)
Eshelman Co., Cheston L., 109 Light St., Baltimore 2, Md.
Four Wheel Drive Auto Company, E. 12th St., Clintonville, Wis.
Frink Sno-Flows, Inc., Clayton, Thousand Islands, N. Y. (Eastern United States).
The Gledhill Road Machinery Co., Gallion, Ohio.
Good Roads Machinery Corp., Minerva, Ohio.
Gravelly Motor Plow & Cultivator Co., Dunbar, W. Va.
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
Klauser Mfg. Co., Dubuque, Iowa. (Rotary.)
Meyer Prods., Inc., 3599 E. 82nd St., Cleveland 5, Ohio.
National Lift Co., 225 Madison St., Waukegan, Wis.
New England Road Machinery Co., 801 F. 6th St., Boston, Mass.
Napco Products Div., Napco Industries, Inc., 834 N. 7th St., Minneapolis, Minn. (For Willys Jeeps and light trucks.)
Root Spring Scraper Co., 627 W. North St., Kalamazoo 11, Mich.

Schenker Iron Works, Inc., 350 Sycamore St., Buffalo 4, N. Y.
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Wausau Iron Works, Wausau, Wis.

SOAPS, CAR WASHING, See Detergents

SOLDERS (Advertisers Only)

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, Ill. (Acid-core, body, radiator flux core.)
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, N. Y. 5, N. Y. (Bar, body, acid core, rosin core.)

SOLDERS, Body

Alpha Metals, Inc., 56 Water St., Jersey City, N. J.
American Brass Co., Waterbury Brass Goods Branch, 26 Crane St., Waterbury 20, Conn.
Atomized Materials Co., 207 Rauch Bldg., Pittsburgh 5, Pa.
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.
Division Lead Co., 7742 W. 61st Pl., Summit, Ill.
Dunton Co., M. W., 7 Goff St., Providence 3, R. I.
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit 5, Mich.
Hollingshead Corp., R. M., Camden 2, N. J. (Cold process repair compound and material.)
Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn.

SOLVENTS, Ice

Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. (Ice preventing on windshield.)
Normandy Chemical Corp., 9th & Western, Muskegon, Mich.

SOLVENTS, Oil, Carbon and Grease

Removing

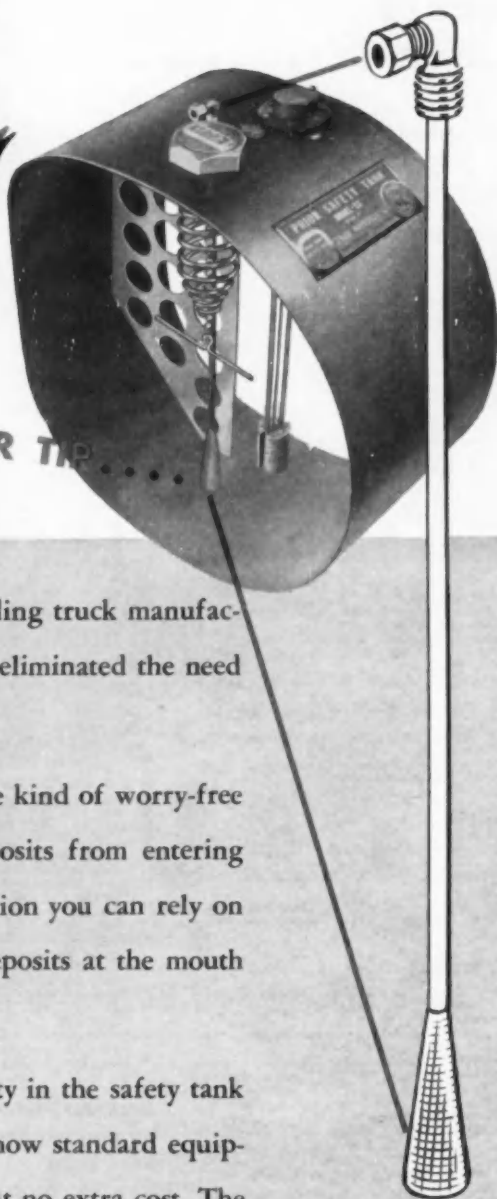
Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Allsop Prods. Co., 154 Clifford St., Newark 6, N. J.
Atomized Materials Co., 207 Rauch Bldg., Pittsburgh 5, Pa.
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. (Sole distributors.)
Klean Strip Co., Box 3565, Memphis 6, Tenn.
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Blakenlee & Co., G. S., 1844 S. Laramie Ave., Cicero 50, Ill.
Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
Brulin & Co., Inc., 2939 Columbia Ave., Indianapolis, Ind.
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio.
Carbide & Carbon Chemicals Co. (a Div. of Union Carbide & Carbon Corp.), 30 E. 42nd St., New York 17, N. Y.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y.
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Downey, Calif.
Celco Corp., 110 E. 42nd St., N. Y. 17, N. Y.
Circu Equipment Co., 120 Central Ave., Rahway, N. J.
Cities Service Oil Co. (Pa.), 54 Wall St., New York 5, N. Y.
Clayton Mfg. Co., 401 N. Temple Bldg., El Monte, Calif.
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.
Continental Laboratories, Inc., 4727 N.E. Prescott St., Portland, Ore.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.

Delta Chemical Co., 682 S. Cox St., Memphis 1, Tenn.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Dow Chemical Co., Midland, Mich.
Drew & Co., E. F., Automotive Chemicals Div., 15 E. 26th St., New York, N. Y.
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Ewing Mfg. Co., 2545 N.W. 10th St., Oklahoma City, Okla.
Fine Organics, Inc., 211 E. 19 St., New York 3, N. Y.
Fisher Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., A. E., P. O. Box 135, Eddington, Bucks County, Pa.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Gunk Chicago Co., 630 N. Harlem Ave., River Forest, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. (For garage use.)
Homestead Valve Mfg. Co. (Hypresure Jenny Div.), Narrows Run Road, Coraopolis, Pa.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.
Jarrett Co., Cecil H., Mt. Olive Rd., Newton, N. C.
Keltie Corp., 1250 No. Main St., Los Angeles 12, Calif.
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lubri-Loy Co., 6319 Wilson St., St. Louis 10, Mo.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mitchell-Bradford Chemical Co., Wampus Lane, Milford, Conn.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y. (Octastrip.)
Panther Chemical Co., P. O. Box 711, Fort Worth, Tex.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich.
Penetone Co., 74 Hudson Ave., Tenaflly, N. J.
Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Philadelphia 2, Pa.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N.Y.
Philadelphia Quartz Co., 1146 Public Ledger Bldg., 6th & Chestnut Sts., Phila. 6, Pa.
Phillips Mfg. Co., 3475 Touhy Ave., Chicago 45, Ill. (Oil and grease.)
Quick Charge, Inc., 1759 N.E. Tenth St., Oklahoma City 4, Okla.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Rust Master Chemical Corp., 56 Creighton St., Cambridge, Mass.
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.
Service Supply Co., 1115 Seventh St., Denver 2, Colo.
Shaler Co., Waupun, Wis.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. (Oil.)
Stain-Ox Co., 625 E. First Ave., Roselle, N. J. (Oil and grease.)
Francisco 20, Calif.
Stanley Co., John T., 642 W. 30th St., New York, N. Y.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo.
Virginia-Carolina Chemical Corp., 401 E. Main St., Richmond, Va.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
White & Bagley Co., 100 Foster St., Worcester 8, Mass.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

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SPARK PLUG CLEANERS, See Cleaners, Spark Plug

SPARK PLUGS

AC Spark Plug, The Electronics Div. of General Motors, 1390 N. Dort Highway, Flint 2, Mich.
Alquist Engrg. Co., Milford, Pa.
American Eagle "Perma-Gap" Spark Plug Corp., 8655 Military St., Detroit 4, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
B. G. Corp., 321 Broad Ave., Ridgefield, N. J.
Blue Crown Spark Plug Corp., P.O. Box 96, Defiance, Ohio.
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Circle Tire Sparkplug Co., 520 W. Stanford St., Springfield, Mo.
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.
Defiance Spark Plug Corp., 323 20th St., Toledo, Ohio.
Doering Mfg. Corp., A. L., 99 Seacrest Ave., Eittingville, S. I. 12, N. Y.
Doran, Inc., James A., 36 W. Exchange Pl., Providence 3, R. I.
Electric Auto-Lite Co., Toledo 1, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Leonard Spark Plug Co., 148 Summit St., Newark 4, N. J. (Shielded.)
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
Stitt Ignition Co., 84 E. First Ave., Columbus 1, Ohio.
Thomas Automotive Products Mfg. Co., Rockford, Ill.
Trojan Products Co., N. Union St., Gallion, Ohio.
Tungsten Spark Plug Mfg., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill.

SPEEDOMETERS

AC Spark Plug, The Electronics Div. of General Motors, 1390 N. Dort Highway, Flint 2, Mich.
Electric Auto-Lite Co., Instrument Div., La-Crosse, Wis.
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn. (For fire engines, trucks, racing cars, etc.)
King-Seely Corp., K-S Bldg., 215 S. First St., Ann Arbor, Mich.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill. (Magnetic and electric.)
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Walsham Watch Co., 221 Crescent St., Waltham 54, Mass.

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AC Spark Plug, The Electronics Div. of General Motors, 1390 N. Dort Highway, Flint 2, Mich.
Alloy Mfr. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Hygrade Products Div., Standard Motor Products, Inc., 25-35 35th St., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Parazon Products Corp., 156 Astor St., Newark 5, N. J.
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Speedometer Service Co., 151 Forest St., Montclair, N. J.
Stewart Mfr. Corp., F. W., 4311 Ravenswood Ave., Chicago, Ill.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill.
Wysenbeck & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill.

SPLASH GUARDS, See Guards, Splash
SPOTLIGHTS, See Lamps, Fog, Head, Spot
SPRAY BOOTH, See Booths, Spraying

SPRAYERS, Molten Metal

Albertson & Co., 3109 Lowell Ave., Sioux City, Iowa.
Metallizing Engineering Co., 1101 Prospect Ave., Westbury, Long Island, N. Y.
Wall Colomony Co., 19345 John R St., Detroit 3, Mich.

SPRAYERS, Paint, Varnish, Lacquer, and Accessories

Bede Products Corp., Jackson St., Amherst, O.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 70 Okner Parkway, Livingston, N. J.
Brown Corp., W. R., 2701 N. Normandy Ave., Chicago 35, Ill.
Campbell-Hausfeld Co., 211 Railroad Ave., Harrison, Ohio.
Cleveland Container Co., Abrasive Div., 3571 W. 62nd St., Cleveland 2, Ohio. (Spray gun heads for paint cans.)
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (Operated from engine.)
Electric Sprayit Div., Thomas Industries, 14th & Illinois Sts., Sheboygan, Wis.
G. M. C. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Gray Co., 54 11th Ave. N.E., Minneapolis 13, Minn.
Idico Products Co., 1 W. 125th St., New York 27, N. Y. (For white wall tires.)
Kelite Corp., 1250 N. Main St., Los Angeles, Calif.
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.
MacLeod Co., Box 452, Sharonville, Ohio.
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill.
Meiser & Co., G. H., 327 E. Marquette Rd., Chicago 37, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York 7, N. Y.
Plumber Spray Equipment Co., 700 Filmore St., Napoleon, Ohio.
Portable Elec. Tools, Inc., 320 W. 83 St., Chicago 20, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Calif.
Spray Engineering Co., 114 Central St., Somerville 45, Mass.
Wilson, Inc., K. R., Arcade, N. Y.

SPRAYERS, Undercoating

American Brake Shoe Co., Kellogg Div., Rochester 9, N. Y.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 201 2nd St., Harrison, N. J.
DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn.
Hudson Mfg. Co., Railroad & Institute Sts., Conyers, Ga.
Lincoln Engrg. Co., 5701 National Bridge Ave., St. Louis 20, Mo.
Smith Mfg. Corp., Grover, 550 E. Valley Blvd., San Gabriel, Calif. (Air operated.)
Stewart-Warner Corp., Alemita Div., 1826 Diversey Parkway, Chicago 14, Ill.
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y.

SPREADERS, ROAD (Gravel, Salt, Sand), See Sanders, Road

SPRINGS, Helper

Automotive Aids Corp., 3526 W. Fort St., Detroit 16, Mich.
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.
Maremont Automotive Products, Inc., S. Ashland Ave., at 16th St., Chicago 8, Ill.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.

Prior Products Co., 4828 Racell St., Dallas, Texas.
Service Spring Co., 701-735 St. Paul St., Indianapolis 6, Ind.
St. Louis Spring Co., Div. Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Trainer National Spring Co., New Castle, Ind.
Tuthill Spring Co., 760 W. Polk St., Chicago 7, Ill.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

SPRINGS, Leaf

Benz Spring Co., 321 N. W. Ninth Ave., Portland 9, Ore.
Betts Spring Co., 868 Folsom St., San Francisco, Calif.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. (For trucks, trailers and buses.)
Champ Spring Co., 2197 Chouteau Ave., St. Louis, Mo.
Cincinnati Auto Spring Co., 311 Central Ave., Cincinnati 2, Ohio. (For trucks and trailers.)
Detroit Steel Products Co., Div. of Fenestra Inc., 1500 Trombley Ave., Detroit 11, Mich.
Eaton Mfg. Co., Spring Div., 9771 French Road, Detroit, Mich.
Iron City Spring Co., 2920 Smallman St., Pittsburgh, Pa.
Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.
Liggett Spring & Axle Co., Monongahela, Pa. (Truck and trailer.)
Maremont Automotive Products, Inc., S. Ashland at 16th St., Chicago, Ill. (Truck, bus and trailer.)
Mather Spring Co., 939 M. Cove Blvd., Toledo 10, Ohio.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Republic Engr. & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.
Rheem Automotive Co., 4951 Alcoa Ave., Los Angeles 58, Calif. (Suspension.)
Rockwell Spring & Axle Co., 843 Fourth Ave., Coraopolis, Pa.
Service Spring Co., 701-735 St. Paul St., Indianapolis 6, Ind.
Spring Perch Co., Hamburg Turnpike (P. O. Box 6), Lackawanna 18, N. Y.
Standard Steel Spring Co., Coraopolis, Pa.
Trainer National Spring Co., Box 391, New Castle, Ind.
Triangle Auto Spring Corp., Maloney Rd. & B. & O. R. R., Dubois, Pa.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
Vall Spring Works, Inc., P. O. Box 4008, Broad Creek Sta., Norfolk, Va.
Vulcan Spring Co., 760 W. Polk St., Chicago, Ill.

STANDS, Adjustable

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Bay Mfg. Div., Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.
Cochin Mfg. Co., 1440 E. Grand Ave., South, San Francisco, Calif.
Edgewater Automotive Div., Auto Specialties Mfg. Co., St. Joseph, Mich.
Evans Reamer & Machine Co., New Lexington, Ohio.
Joyce-Cridland Co., 2027 E. First St., Dayton 8, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
R V Jack Corp., P. O. Box 205, Arcade, N. Y.
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. 2nd St., Dayton 1, Ohio.
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo 12, Ohio. (Folding.)
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Folding.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Horses.)
Wilson, Inc., K. R., Arcade, N. Y.

STANDS, AXLE REPAIR, REAR, See Stands, Engine Transmission Repair

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and
extra**



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Built for fast, easy, safe-handling of all heavy-duty jobs!

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Check these features:

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stands to switches

CCJ'S PRODUCT DIRECTORY

STANDS, Body Parts Repair

Blackhawk Mfg. Co., 5325 W. Rogers St.
Milwaukee 1, Wis.

STANDS, Engine & Transmission Repair

Bacharach Industrial Instrument Co., 7301
Penn Ave., Pittsburgh 8, Pa.
Cam Tool Co., 1038 Larkin St., San Fran-
cisco, Calif.
Cedar Rapids Engrg. Co., 902 N. 17th St.,
Cedar Rapids, Iowa.
Clayborne Mfg. Co., 429 N. Main St., Montic-
ello, Ind.
Clayton Mfg. Co., 401 N. Temple City Blvd.,
El Monte, Calif.
Cleveland Pneumatic Tool Co., Automotive Div.,
3769 E. 77th St., Cleveland 5, Ohio.
Curtiss & Smith Mfg. Corp., 125 E. 4th St.,
Pottstown, Pa.
Evans Reamer & Machine Co., New Lexington,
Ohio.
Houdaille Industries Inc., Mangel Div., 315
Babcock St., Buffalo 10, N. Y.
K & W Products, Inc., 8319 Allport Ave.,
Whittier, Calif.
Lemco Products, Inc., 5490 Dunham Rd.,
Bedford, Ohio.
Manley Div. American Chain & Cable Co., 1100
E. Princess St., York, Pa.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4,
Mich.
Montague Equipment Co., Box 222, Urbana,
Ohio.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas
19, Tex.
Wilson, Inc., K. R., Arcade, N. Y.
Worthington Pump & Machinery Corp., Harrison,
N. J.

STANDS, Portable Tool and Parts

Albertson & Co., 2100 Lowell Ave., Sioux City
3, Iowa.
All Steel Welded Truck Co., 1149 Railroad
Ave., Rockford, Ill.
Angle Steel Steel Co., 55 Oak St., Plainwell,
Mich.
Bacharach Industrial Instrument Co., 7301
Penn Ave., Pittsburgh 8, Pa.
Barrett-Craves Co., 630 Dundee Rd., North-
brook, Ill.
Bay Products, Inc., 3001 N. 16th St., Phila. 32,
Pa.
Bernard-Franklin Co., Hedley & Bath Sts.,
Phila. 47, Pa.
Colson Corp., Elyria, Ohio.
Cutler Metal Products Co., 1029 Line St.,
Garden, N. J.
Equipto Div. Aurora Equipment Co., Prairie
St. at Cleveland Ave., Aurora, Ill.
Frick-Gallagher Mfg. Co., 200 W. Second St.,
Wellston, Ohio.
Herbrand Div., Bingham-Herbrand Corp., Lake
& Stone Sts., Fremont, Ohio.
Herman Co., Karl A., 412 Fuller Ave. N.E.,
Grand Rapids, Mich.
Hust Mfg. Co., 550 N. Wheeler Ave., St. Paul,
Minn.
Kennedy Mfg. Co., N. Harrison St., Van Wert,
Ohio.
Lincoln Engrg. Co., 4010 Goodfellow Blvd.,
St. Louis 20, Mo.
Lyon Metal Products, Inc., 2931 Montgomery
St., Aurora, Ill.
Nutting Truck & Caster Co., 1201 W. Division
St., Fairbault, Minn.
Overbeke-Kain Co., 20905 Aurora Ave., Bed-
ford, Ohio.
Owatonna Tool Co., 342 N. Cedar St., Owa-
tonna, Minn.
R & L Mfg. Co., 1945 N. 12th St., Toledo 1,
Ohio. (Sole distributors, Lisle Corp., 809
E. Main St., Clarinda, Iowa.)
Service Caster & Truck Corp., 540 N. Browns-
wood Ave., Chicago, Ill. (Elevating.)
Sheet Metal Specialty Div. of Follansbee Steel
Corp., State St., Follansbee, W. Va.
Shure Mfg. Co., 1401 S. Hanley Rd., St. Louis
17, Mo.
Standard Pressed Steel Co., Jenkintown, Pa.
Stard-Bilt Steel Products, Inc., 2501 Peterson
Ave., Chicago 45, Ill.
Waterloo Valve Spring Compression Co., 300
Ansborough Ave., Waterloo, Ia.
Wilson, Inc., K. R., Arcade, N. Y.

STARTING AID

Schauer Mfg. Corp., 4533 Alpine St., Cincin-
nati 36, Ohio.

STARTING MOTOR DRIVE PARTS, See Parts,
Starting Motor Drive

STARTING MOTORS, See Motors, Starting STEAM CLEANERS, See Cleaners, Engine, Chassis and Fender

STEEL or IRON, Angle, Channel and Tee

Alan Wood Steel Co., Conshohocken, Pa.
Atlantic Steel Co., 16th & Mecalun Sts.,
Atlanta 1, Ga. "Dixisteel." (Steel.)
Calumet Steel Div. of Borg-Warner Corp., 11
St. & Wentworth Ave., Chicago Heights,
Ill. (Steel.)
Hynes Steel Products Co., 3760 Oakwood Ave.,
Youngstown, Ohio. (Angle steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago
3, Ill.
Jones & Laughlin Steel Corp., 3 Gateway
Center, Pittsburgh 30, Pa. (Steel.)
Republic Steel Corp., Republic Bldg., Cleveland
1, Ohio.
United States Steel Corp., 525 Wm. Penn Pl.,
Pittsburgh 30, Pa.
Youngstown Steel Car Corp., Niles, Ohio.

STEEL, Sheet

Alan Wood Steel Co., Conshohocken, Pa.
American Nickeloid Co., Peru, Ill. (Nickel,
chrome, copper and brass plated.)
Apollo Metal Works, Inc., Clearing Station,
Chicago 38, Ill. (Chromium, nickel, cop-
per or brass plated.)
Armco Steel Corp., 703 Curtis St., Middle-
town, Ohio. (Hot and cold rolled.)
Bethlehem Steel Co., Bethlehem, Pa. "Beth Cu
Loy."
Caine Steel Co., 1820 N. Central Ave., Chicago
29, Ill.
Coatesville Plate Washer Co., 1644 Widener
Bldg., Philadelphia 7, Pa.
Continental Steel Corp., 1108 S. Main St.,
Kokomo, Ind.
Crucible Steel Co. of America, 535 Smithfield
St., Pittsburgh, Pa.
Detroit Steel Corp., P.O. Box 4308, Detroit 9,
Mich. (Hot and cold rolled.)
Eastern Stainless Steel Corp., P. O. Box 1976,
Baltimore, Md. (Stainless.)
Great Lakes Steel Corp., Ecorse, Detroit 29,
Mich. (Enameled.)
Great Lakes Steel Corp., N-A-X Alloy Div.,
Detroit 29, Mich.
Hynes Steel Products Co., 3760 Oakwood Ave.,
Youngstown, Ohio.
Ingersoll Steel, Div. Borg-Warner Corp., P. O.
Box 275, New Castle, Ind. (Carbon, alloy
and stainless.)
Inland Steel Co., 38 S. Dearborn St., Chi-
cago 3, Ill. (Licensee, 4-Way Safety
Plate.)
Jones & Laughlin Steel Corp., 3 Gateway
Center, Pittsburgh 30, Pa.
Kaiser Steel Corp., 1924 Broadway, Oakland
12, Calif. (Hot and cold rolled.)
Kirk & Blum Mfg. Co., 1120 Forrer St., Cin-
cinnati 9, Ohio.
Newport Steel Corp., 9th & Lowell Sts., New-
port, Ky.
Republic Steel Corp., Republic Bldg., Cleve-
land 1, Ohio. (Stainless.)
Sharon Steel Corp., Sharon, Pa.
Superior Sheet Steel Co., Canton, Ohio.
Superior Steel Corp., Carnegie, Pa. (Copper,
monel or nickel coated.)
Tennessee Coal & Iron Div. United States Steel
Co., P. O. Box 599, Fairfield, Ala.
United States Steel Corp., 525 Wm. Penn Pl.,
Pittsburgh 30, Pa.
Washington Steel Corp., Griffith & Woodland
Aves., Washington, Pa. (Stainless.)
Weirton Steel Co., Weirton, W. Va.
Wheeling Steel Corp., Wheeling Steel Bldg.,
Wheeling, W. Va.

STEERING GEARS, See Gears, Steering

STEERING, Power

Air-O-Matic Power Steer Corp., 34 Noble
Court, N. W. Cleveland 13, Ohio. (Air
for trucks and buses.)
Bendix Products Div. Bendix Aviation Corp.,
401 N. Bendix Drive, South Bend 20, Ind.
(Hydraulic.)
Bendix-Westinghouse Automotive Air Brake
Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
Garrison Mfg. Co., 1500 S. Santa Fe Ave.,
Los Angeles 21, Calif. (Hydraulic, for
trucks and tractors.)
Gemmer Mfg. Co., 6400 Mt. Elliott Ave., De-
troit 11, Mich. (Hydraulic.)
Ross Gear & Tool Co., Inc., 800 Heath St.,
Lafayette, Ind. (Hydraulic.)

Saginaw Steering Gear Div. General Motors
Corp., Clinton & Hamilton Sts., Saginaw,
Mich. (Hydraulic.)
Vickers, Inc., 1400 Oakman Blvd., Detroit 32,
Mich. (Hydraulic.)

STENCILS, For Lettering

Dicks Co., C. O., Detroit, Mich. (Lettering for
trucks; cut paper masks for spraying.)

STEPS, Truck Body

Automotive Equipment Mfg. Co., 11000 South
Alameda St., Lynwood, Calif.
Bustin Steel Products, Inc., Dover, N. J.
Cam Tool Co., 1038 Larkin St., San Fran-
cisco, Calif. (Folding.)
Medley Mfg. Co., 9300 E. Firestone Blvd.,
Downey, Calif. (Side and rear.)
Meco Products, Crete, Neb. (Folding.)
Midwest Body & Mfg. Div., Electrographic
Corp., S. Central St., Paris, Ill.
Miller Mfg. Co., 5919 Fireman Ave., Detroit 4,
Mich. (For mechanic's use.)
Power Brake Parts Mfg. Co., 3435 S. Racine
Ave., Chicago 8, Ill. (Maintenance stand.)
Truck Accessories Co., 2512 W. Olympic Blvd.,
Los Angeles 6, Calif.
Truk-Step Co., 132 W. Verdugo St., Burbank,
Calif.
Turk Corp., C. K., 1122 Meshawaka Ave.,
South Bend 15, Ind. (Folding.)
Western Motors, Body Div., 4534 Cermak Rd.,
Cicero, Ill.

STRAIGHTENERS, Axle

Bean Div., Food Machinery & Chemical Corp.,
John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock
Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bennett-Peragen, 1408 Jerome St., Niles, Mich.
Builders Ornamental Iron Co., 4655 W. Arth-
ington St., Chicago 44, Ill.
Manhee Equip. Div., Bear Mfg. Co., P.O. Box
607, Rock Island, Ill.

STRAIGHTENERS, Frame

(See Also Presses, Straightening)
Bean Div., Food Machinery & Chemical Corp.,
John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock
Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Builders Ornamental Iron Co., 4655 W.
Arthington St., Chicago 44, Ill.
Snap-On Tools Corp., 8945 28th Ave., Kenosha,
Wis. (Hydraulic, combination body and
frame.)

STRAIGHTENERS, WHEEL, See Presses,
Straightening (Wheel)

STRIPPERS, PAINT, See Removers, Paint,
Enamel and Varnish

SUSPENSION UNITS, AXLE (FOR TRAIL-
ERS), See Axle Suspension Units, for
Trailers

SWEEPERS, Road

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Austin-Western Co., Aurora, Ill.
Columbia Engineering Service Co., 178 14th
St., San Francisco, Cal. (Magnetic Type.)
Elgin Sweeper Co., Elgin, Ill.
Essex Manufacturing Co., 42 Magnet Drive,
Erie, Pa.
Frink Sno-Plows, Inc., Clayton, Thousand Isle,
N. Y.
Hough Co., Frank G., Libertyville, Ill.
Little Giant Products, Inc., 1530-60 N. Adams
St., Peoria, Ill.
Wilshire Power Sweeper Co., 526 W. Chevy
Chase, Glendale 4, Calif. (Road & floor.)

SWITCHES, Direction Indicating Signal

Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave.,
Chicago, Ill.
Carter Parts Co., 3401 W. Madison St., Skokie,
Ill.
Chefford Master Mfg. Co., Fairfield, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston
27, Mass.
Delco-Remy Div., General Motors Corp., Ander-
son, Ind.
Douglas Mfg. Div., Kingston Products Co.,
Railroad St., Bronson, Mich.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chi-
cago 51, Ill.

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rials—and use them in heavier gauge—to give thousands of extra miles of life. They find new construction processes—and build improved models at competitive prices. And they develop new, exclusive *built-in XX safety factors* to make every Griffin lamp an engineering masterpiece. It will pay you to standardize with Griffin, the complete fleet line. Call your Griffin distributor now.

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switches

CCJ'S PRODUCT DIRECTORY

SWITCHES—continued

Fasco Industries Inc., 400 Davis St., Rochester 2, N. Y.
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Marion Truck Equipment Co., 2170 Milwaukee Ave., Chicago 47, Ill.
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (For school buses.)
 Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.
 Signal-Stat Corp., 523-39 Kent Ave., Brooklyn 11, N. Y. (Combination directional signal switch and emergency flashing switch for disability parking.)
 Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich.
 United Specialists Co., Mitchell Div., Shelmire & Edmund Sts., Philadelphia 36, Pa.
 Valley Forge Products Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
 Yankee Metal Products Corp., 25 Grant St., Norwalk, Conn. (Self-cancelling.)

SWITCHES, Floor or Foot

Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind. (Foot dimming.)
 Echlin Mfg. Co., 220 East St., New Haven 5, Conn. (Dimming.)
 Electric Auto-Lite Co., Toledo 1, Ohio.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Headlight dimming.)
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y. (Headlight dimming.)
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y. (Headlight dimming.)
 Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill. (Headlight dimming foot.)
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kem Mfg. Co., 20-21 Sagaraw Rd., Fair Lawn, N. J.
 M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. (Headlight dimming.)
 National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
 New York Coil Cr., 42 Second Ave., Phoenixville, Pa. (Headlight dimming, foot operated.)
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Headlight dimming.)
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Headlight dimmer.)
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)
 Sorenson Mfg. Co., 57th St., Woodside 77, N. Y.
 Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y. (Headlight dimming.)
 Tascos Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.
 Valley Forge Products Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

SWITCHES, Heater

Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
 Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.

Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Culver-Stearns Mfg. Co., 181 Greenwood St., Worcester 7, Mass.
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
 General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
 K-D Lamp Div., 1910 Elm St., Cincinnati 10, Ohio.
 Kem Mfg. Co., 20-21 Sagaraw Rd., Fair Lawn, N. J.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.
 Tascos Products Inc., 199 Vermont St., Brooklyn 7, N. Y.
 Valley Forge Products Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

SWITCHES, Ignition

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.
 Bendix-Scintilla—See Scintilla Magneto Div. of Bendix Aviation Corp.
 Briggs & Stratton Corp., 2711 N. 18th St., Milwaukee 1, Wis.
 Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
 Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
 Electric Auto-Lite Co., Toledo 1, Ohio.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
 Freedco Products, Inc., 154 Nassau St., New York, N. Y.
 General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
 Guaranteed Parts, Seneca Falls, N. Y.
 Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
 Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Scintilla Magneto Div. Bendix Aviation, Sherman Ave., Sidney, N. Y.
 Sorenson Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
 Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill. (Automatic.)
 Tascos Products Inc., 199 Vermont St., Brooklyn 7, N. Y.
 United Specialists Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
 Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

SWITCHES, Ignition, Cut-Off

Clapp Corp., 2519 Hawes St., Dallas 9, Texas.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
 Moto-Gard Co., 1104 W. Cabarrus St., Raleigh, N. C.
 Murphy, Frank W., Tulsa, Okla.
 Reynolds Electric Co., 3000 River Rd., River Grove, Ill.
 Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.

Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.
 Transportation Safety Appliances, Inc., 348 S. Dearborn St., Chicago 4, Ill.
 Viking Instrument Co., East Haddam, Conn.

SWITCHES, Light

Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill. "Amko."
 Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Connecticut Telephone & Electric Corp., 85 Britannia St., Meriden, Conn.
 Controls Corp. of America, Soreng Div., 9555 Soreng Ave., Schiller Park, Ill.
 Culver-Stearns Mfg. Co., 181 Greenwood St., Worcester 7, Mass.
 Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.
 Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
 Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind. (For dome lights.)
 Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
 Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
 Facso Industries Inc., 400 Davis St., Rochester 2, N. Y.
 General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y. (Dash.)
 Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
 Guaranteed Parts Co., Seneca Falls, N. Y.
 Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)
 Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
 Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.
 Rhoads, Inc., W. H., 30 Bartholomew Ave., Hartford 6, Conn.
 Standard Motor Products, Inc., 3715 Northern Blvd., Long Island City, N. Y.
 Tascos Products Inc., 199 Vermont St., Brooklyn 7, N. Y.
 United Specialists Co., Mitchell Div., Shelmire & Edmund Sts., Holmesburg, Philadelphia 36, Pa.
 Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis.
 Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
 Automotive Specialty Corp., 1662 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
 Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill. (Remote control.)
 Carter Parts Co., 213 Institute Place, Chicago 10, Ill.
 Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
 Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
 Echlin Mfg. Co., 220 East St., New Haven 5, Conn.
 Electra Mfg. Co., 800 N. 21st St., Independence, Kans.
 Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite." (Solenoid.)
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Solenoid.)

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- Increases garage efficiency!
 - Outlasts a dozen ordinary drop lights—pays for itself in no time!
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 - Mounts easily on wall or ceiling!
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SWITCHES—continued

Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Practical Devices, Inc., 103 Lafayette St., New York 13, N. Y. (Remote control.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorensen Mfg. Co., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.
United Specialists Co., Mitchell Div., Shelmire & Edmund Sts., Holmesburg, Philadelphia 36, Pa.
Valley Forge Products Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

SWITCHES, Stop Light

American Motor Products Co., Fond du Lac, Wis.
Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Guaranteed Parts Co., Seneca Falls, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Trailer.)
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Loom & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Marion Truck Equipment Co., 2030 S. State St., Chicago 16, Ill.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.
Murray Corp., E. Joppe Rd., Towson 4, Md.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Perfect Parts Inc., 43 W. 23rd St., New York 10, N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, Long Island, N. Y.

Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.
Valley Forge Products Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wagner Electric Corp., 440 Plymouth Ave., St. Louis 14, Mo.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

SYNCHRONIZERS, See Instruments, Distributor Testing

TACHOMETERS, Engine Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Electric.)
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Barbour-Stockwell Co., 205 Broadway, Cambridge 39, Mass.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Kal-Equipment Co., Box 567, Kalamazoo, Mich.
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
Motorade Corp., 2400 Emerald St., Philadelphia 26, Pa. (Electric.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 41, Ill. (Electric.)
Weidenhoff, Inc., Joseph, Box 220, Algona, Iowa.
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif.

TACHOMETERS, Speed

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Amthor Testing Instrument Co., 45 Van Sinderen Ave., Brooklyn 7, N. Y.
Barbour-Stockwell Co., 205 Broadway, Cambridge 39, Mass.
Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
Bristol Co., Waterbury 91, Conn.
Electro-Mechano Co., 261 E. Erie St., Milwaukee 2, Wis.
Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.
Ideal Industries, Inc., 1014 Park Ave., Syracuse 4, N. Y.
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Metron Instrument Co., 432 Lincoln St., Denver 9, Colo. (Electric.)
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
Stewart-Warner Corp., Instrument Div. 1826 Diversey Parkway, Chicago, Ill. (Electric and mechanical.)
Sticht Co., Herman H., 27 Park Place, New York, N. Y.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.
Waltham Watch Co., 221 Crescent St., Waltham 84, Mass.
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif.
Zernickow Co., O., 15 Park Row, New York 38, N. Y.

TACHOGRAPHS, See Recorders, Vehicle Movement

TAILGATE LOADERS, See Loaders, Truck (Elevating Tailgate)

TAIL PIPES, See Pipes, Tail and Exhaust

TAKE-OFFS, Power

Adams Engineering Co., 31711 Solon Rd., Solon, Ohio.
Automotive Gear Works, Inc., Eighth & S. O. Sts., Richmond, Ind.
Automotive Mfg. Co., 670 W. Fulton St., Chicago 6, Ill.
Braden Winch Co., Box 547, Broken Arrow, Okla.
Cemco Industries, Inc., Gallon, Ohio. (Split shaft.)
Chelsea Products, Inc., 21 Buchanan St., Chelsea, Mich.

Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Couse Mfg. Inc., 300 Pacific St., Newark 4, N. J.
Detroit Harvester Co., Paris Products Div., Paris, Ky.
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. (With hoist, winch and crane.)
Heil Co., Dept. 62115, 3062 W. Montana St., Milwaukee 1, Wis.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
Lempeo Products Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade Lempeo Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Mobile Power, Inc., 400 Leland Pl., Lansing, Mich.
Muncie Parts Mfg. Co., 2601 S. Jefferson St., Muncie, Ind.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Stow Mfg. Co., 38 Shear St., Binghamton, N. Y.
Tulsa Winch, Div. of Vickers, Inc., 815 E. First St., Tulsa 20, Okla.
Twiss Disc Clutch Co., 1338 Racine St., Racine, Wis. (Hydraulic.)
Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis.
Watson Co., H. S., 1316 67th St., Emeryville, Calif.
Western Gear Works, 2600 E. Imperial Highway, Lynwood, Calif.

TALC, TIRE, See Lubricants, Tire

TANK BODIES, See Tanks, Trailer and Truck Body

TANKS, Fuel Supply

American Safety Tank Co., 3937 Main St., Kansas City 11, Mo.
Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (To order.)
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala.
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
The Lintern Corp., Route 20 East, Painesville, Ohio. (Sole distributors Lintern-Jolene Sales Corp., P. O. Box 428, Painesville, Ohio.)
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif. (For jeeps.)
Master Tank & Welding, 1612 Singleton Blvd., Dallas 2, Tex.
Michigan Fleet Equipment Co., 2350 Chicago Drive S. W., Grand Rapids, Mich.
Mitchell Metal Products Inc., 6501 Cedar Ave., Cleveland 5, Ohio.
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
Snyder Tank Corp., 3773 Lake Shore Blvd. (P. O. Box 14), Buffalo 5, N. Y.)
Stolper Steel Products Corp., 300 Pilgrim Rd., Menominee Falls, Wis.
Western Metal Specialty Div. Western Industries Inc., 1213 N. 62nd St., Milwaukee 13, Wis.
Whitehead & Kales Co., 58 Haltiner St., River Rouge, Mich. (Auxiliary truck.)

TANKS, METAL PARTS WASHING, See Washers (Metal Parts)

TANKS, Oil, Portable

(Tanks and pumps on wheels)
Boswer, Inc., S. F., 1302 E. Creighton Ave., Ft. Wayne 2, Ind.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Grigg Specialty Tools, 8103 Marblia Ave., Huntington Park, Calif.

TANKS, Tire and Tube Testing

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.



"We Use Only Aeroquip Hose Lines ... Never Had a Failure"

reports Harold Sexton, shop foreman,
S & W Motor Lines, Inc., Greensboro, N. C.

In 1954, S & W Motor Lines converted all diesel fuel, lube oil, water, vacuum and air lines on their 50 tractors from rigid tubing to Aeroquip Flexible Hose Lines. The company estimates this conversion has eliminated road downtime amounting to about \$100 savings per unit to date.

"We use Aeroquip 100% throughout our fleet," says Shop Foreman Sexton. "We have never had a failure due to Aeroquip Hose Lines."

Let your Aeroquip Distributor show you how Aeroquip Hose Lines can reduce downtime. He is listed in your Yellow Page Phone Book. Call him, or write us.



An S & W mechanic installs an air line using Aeroquip 1525 Low Pressure Hose. Installation takes only a few minutes.



For exposed fuel transfer lines, S & W uses rugged 1503 wire braid hose to withstand the rugged conditions encountered on the highways.



Aeroquip hose assemblies are made up in the shop as they are needed, using bulk hose and detachable, reusable fittings.

Aeroquip

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AEROQUIP CORPORATION, JACKSON, MICHIGAN

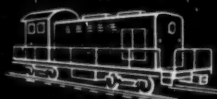
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LOCAL REPRESENTATIVES IN PRINCIPAL CITIES IN U.S.A. AND ABROAD • AEROQUIP PRODUCTS ARE FULLY PROTECTED BY PATENTS IN U.S.A. AND ABROAD

Spicer

The BIG

for the long, strong haul



INDUSTRIAL LOCOMOTIVE



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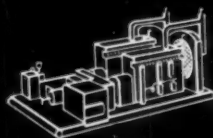
OIL FIELD WINCH



SCRAPER



FIRE ENGINE



INDUSTRIAL UNIT



HEAVY TRUCK



GRADER

Improved 1957 Spicer Clutch Embodies New Performance Features

This is the unit you're talking about when you say "HEAVY-DUTY CLUTCH!"

This is the clutch that is engineered for the world's heaviest automotive power transmission service.

New and improved features of the 1957 Spicer Brown-Lipe Clutch for continuous performance in the most punishing on-and-off highway duty include:

BUILT IN PARALLELISM—Multiple levers and central springs assure uniform pressure around entire circumference of pressure plate regardless of wear or adjustment.

NO BEARING FACE WEAR—Bearing fully enclosed in housing. No fingers to wear on bearing face.

FAST, EASY ADJUSTMENT—Achieved by turning threaded adjusting ring. No special tools required.

ADJUSTMENT RESTORES ORIGINAL TORQUE CAPACITY—Proper adjustment returns the springs to original installed length, thereby restoring torque capacity.

LOWER HEAT ON SPRINGS—There is no direct contact between pressure springs and pressure

plate, therefore, springs will not take a set and lose pressure due to heat.

REDUCED FRICTION—The knife edge design of the fulcrum points reduces friction which shows up as less pedal effort to release clutch.

SMOOTH PICK-UP—This results from the multiple flexible levers and is easy on facings, shafts, drive gears, vehicle and cargo. It also eliminates the extra cost for a cushioned driven disc.

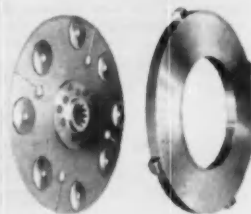
PARTS INDIVIDUALLY BALANCED—Field replacement of individual parts can be made without upsetting balance of unit.

RELEASE PARTS WITH CLUTCH—Unit is complete with Release Bearing Assembly, Release Yoke and Cross Shafts ready for hook up to pedal linkage. No further engineering or procurement is required by purchaser.

CLUTCH BRAKE—An inexpensive clutch brake can be supplied for use with unsynchronized transmissions.

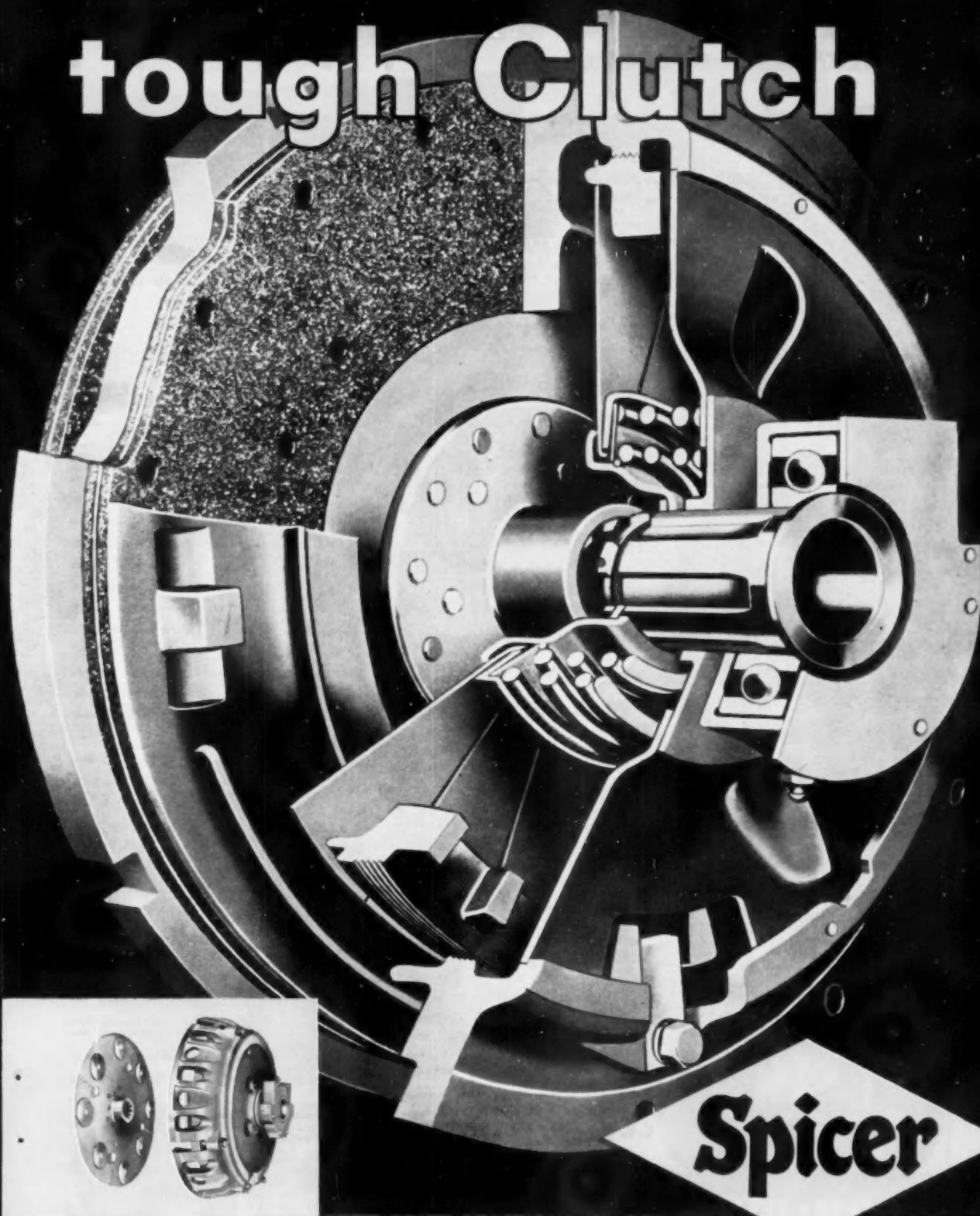
The 1957 Spicer Brown-Lipe Clutch can be furnished in single- or two-plate models, with choice of ceramic linings on driven disc, also with bonded or riveted facings.

This is the 15½" 2-plate Spicer Brown-Lipe Clutch with ceramic button-type facing material which increases torque capacity without increasing load or pedal pressure.



DANA CORPORATION

tough Clutch



Spicer

Toledo 1, Ohio

SIPCR PRODUCTS: Transmissions • Universal Joints • Propeller Shafts
Axles • Torque Converters • Gear Boxes • Power Take-Offs • Power
Take-Off Joints • Rail Car Drives • Railway Generator Drives • Stampings
Spicer and Auburn Clutches • Parish Frames • Spicer Frames • Forgings

tanks to tanks and systems

CCJ'S PRODUCT DIRECTORY

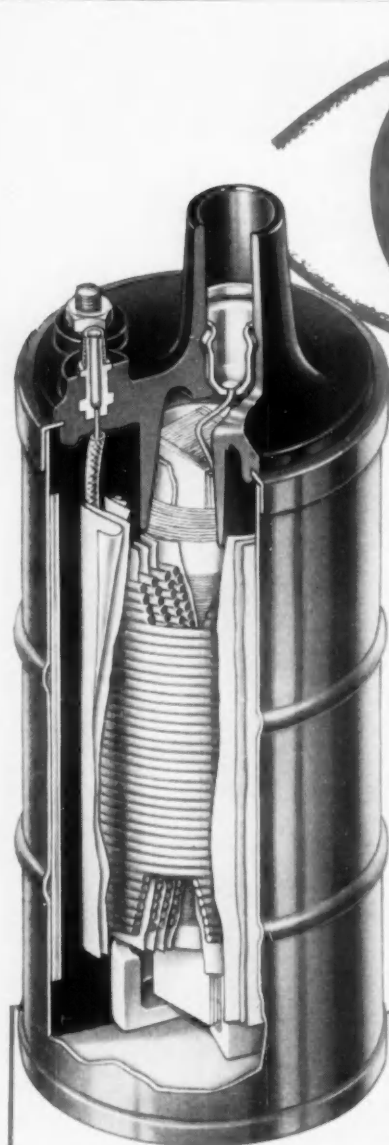
TANKS—continued

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Bishman Mfg. Co., Osseo, Minn.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Ia.
(Sole distributors: Jack P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Independent Iron Works 8th & Pine Sts., Oakland 20, Calif.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lawson Co., F. H., Evans & Whately Sts., Cincinnati, Ohio.

TANKS, Trailer and Truck Body

Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.
Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa.
Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.
Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland 3, Ore.
Boston Steel & Mfg. Co., 112 Bryant St., Malden 48, Mass.
Butler Mfg. Co., 7400 E. 13th St., Kansas City 26, Mo.
Chicago Stainless Equipment Corp., 5001 Elston Ave., Chicago 30, Ill. (Stainless steel, for milk.)

Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gary Steel Products Corp., P. O. Box 449, Lynchburg, Va. (Trailer to order.)
Gate City Steel Inc., 4000 Warm Springs Ave., Boise, Idaho.
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hews Body Co., 87 St. John St., Portland 4, Me.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Industrial Steel Tank & Body Works Inc., 2533 Fourth St., Berkeley 10, Calif.
Joplin Body & Trailer, Inc., 729 E. 5th St., Joplin, Mo.
Kaustine Co., Perry, N. Y.
Kennedy Tank & Mfg. Co., 1201 Beecher St., Indianapolis 7, Ind.
Master Tank & Welding, 1612 Singleton Blvd., Dallas 2, Tex.
Miller & Smith Mfg. Co., 500 Phoenix Ave., N. W., Albuquerque, N. Mex.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Niles Steel Tank Co., Niles, Mich.
Pacific Coast Tank Co., Oak & Clement Sts., Alameda, Calif. (To Order.)
Pennsylvania Furnace & Iron Co., 316 Pine St., Warren, Pa.
Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Providence Body Co., 750 Wellington Ave., Cranston, R. I.
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa.
Rock Hill Body Co., W. Main St., Rock Hill, S. C.
Roehlk Spring and Body Co., 417 S. 15th St., St. Louis 3, Mo. (Milk.)
Sharpville Steel Fabricators, Inc., Sharpville, Pa.
Stainless Steel Products Co., 1000 Berry Ave., St. Paul 14, Minn. (Stainless steel.)
Standard Steel Works Inc., 16th & Howell Sts., North Kansas City 16, Mo.
Steel Products Co., P. O. Box 1007, Savannah, Ga.
Stewart & Stevenson Services, Inc., 4516 Harrisburg, Blvd., Houston, Tex.
Stoughton Cab & Body Co., 408 E. South St., Stoughton, Wis. (Milk.)
Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind. (To order.)
Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash.
Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore.
Wichita Body & Equipment Co., 1926 N. Broadway, Wichita 12, Kan. (Live fish transport.)
Wilco, Inc., 400 E. Decatur St., Kenton, Ohio.
Wright Co., Thomas, 185 Dey St., Jersey City 6, N. J.



Your eye can see
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Superiority

ENGINEERED FOR LONG LIFE AND PEAK PERFORMANCE

• Trained eyes can easily see Niehoff's obvious superiority. The built-in advantage that makes Niehoff Ignition Parts superior to any on the market is...the specialized engineering that builds quality. Parts stay on the job longer...with longer periods of peak performance.

• Prove it to yourself. Ask your Niehoff jobber about the experience of other fleet owners and commercial repair shops in your area. Niehoff Ignition means less "Down Time" more "Road Time". That means profit to you.

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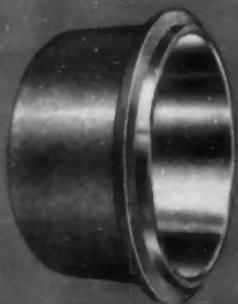
TANKS AND SYSTEMS, Gasoline and Oil Storage

Airtherm Mfg. Co., 700 S. Spring Ave., St. Louis 10, Mo.
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio.
Birmingham Tank Co., Div. of Ingalls Iron Works Co., 620 Ave. D, Birmingham, Ala. (Tanks.)
Bosner, Inc., 1302 E. Creighton Ave., Fort Wayne 2, Ind.
Butler Mfg. Co., 7400 E. 13th St., Kansas City 26, Mo.
Chicago Boiler Co., 1965 Clybourn Ave., Chicago 14, Ill. (Underground tanks.)
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa. (Systems.)
Farrell Mfg. Co., Joliet, Ill.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Independent Iron Works, 8th & Pine Sts., Oakland 20, Calif.
Kaustine Co., Perry, N. Y. (Tanks.)

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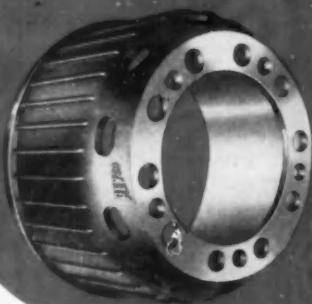
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TANKS AND SYSTEMS—continued

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Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Niles Steel Tank Co., Niles, Mich. "Life-time."
Petroleum Systems, Inc., 2914 E. Grand Blvd., Detroit 2, Mich. (Hydraulic flotation system.)
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa.

Richmond Engineering Co., Seventh & Hospital Sts., Richmond 1, Va. (Tanks.)
Sharpsville Steel Fabricators, Inc., Sharpsville, Pa.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif. (Tanks.)
Wayne Pump Co., 1432 State Ave., Cincinnati 4, Ohio.
Wood Co., John, Bennett Pump Div., Muskegon, Mich.

TAPE, MASKING, See Masking, Tape

TAPPETS, Valve

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill. (Hydraulic and mechanical.)
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave. S.W., Grand Rapids 2, Mich. (Hydraulic.)
Eaton Mfg. Co., Saginaw Div., 1000 Rust St., Saginaw, Mich. (Also hydraulic and self-adjusting.)
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.
Johnson Products, Inc., 1185 E. Keating Ave., Muskegon, Mich.
S-M Tappet Sales, 600 E. San Christopher Drive, Dunedin, Fla. (Hydraulic and mechanical.)
Thompson Products Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Automatic self-contained.)
Wohlert Corp., 700 E. Grand River Drive, Lansing 5, Mich.
Wolverine Gear & Parts Co., Osseo, Mich.

TARPAULINS, See Covers, Truck

TELEPHONE SERVICE, Private Line

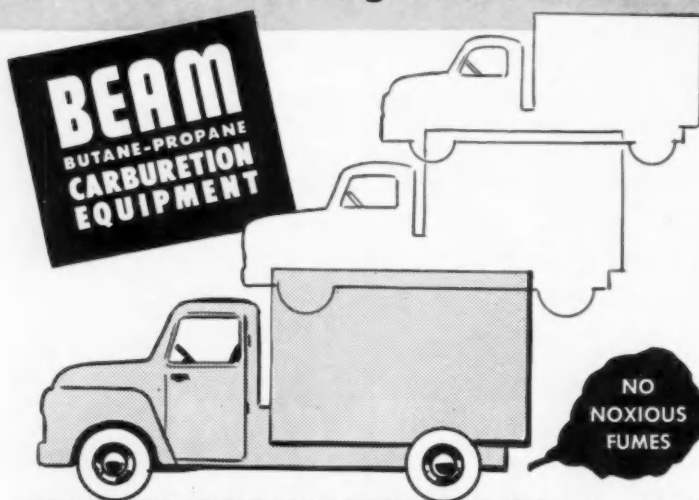
(Advertisers Only)
Bell Telephone System, Local Office.

TELEPHONES, MOBILE, See Radios, Two-Way

TERMINALS, Wire

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
American Pampor, Inc., Subsidiary of Amp, Inc., Aircraft-Marine Products, 131 Hillcrest Ave., Havertown, Pa.
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
Barcy-Nicholson Co., 8100 Joy Rd., Detroit 4, Mich.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Champion Cable Co., 1805 E. 40 St., Cleveland 3, Ohio.
Clark Cable Corp., 11201 Berea Rd., Cumberland 2, Ohio.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Fort Huron, Mich.
Electric Terminals Corp., 2019 Center St., Cleveland 13, Ohio.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Inter-Continent Mfg. Co., 117 E. 18th St., Chicago 5, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Look & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Monarch Insulated Wire Co., 491 Broadway, New York, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Packard Electric Div., General Motors Corp., Dana St., Warren, Ohio.
Patton-MacGyver Co., Baker St. & Virginia Ave., Providence 5, R. I.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Rajah Co., 35 Verona Ave., Newark 4, N. J.
Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
Richards Mfg. Co., 20 E. Herman St., Philadelphia 44, Pa.
Shakeproof Div. of Illinois Tool Works, St. Charles Rd., Elgin, Ill., 2501 N. Keeler Ave., Chicago 39, Ill.
Sherman Mfg. Co., H. E., 22 Barney St., Battle Creek, Mich.

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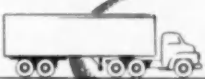
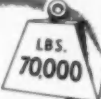




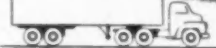

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However ... if this same combination  is equipped with the *Midland Dual Braking System*—the last word in tractor-trailer braking protection—it will stop in at least 75 feet less distance  than if equipped with the required system.

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Stimpson Co., Edwin B., 70 Franklin Ave., Brooklyn, N. Y.
Thompson-Bremer & Co., 520 N. Dearborn St., Chicago 10, Ill.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Solderless.)
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.

Walker Bros., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1801 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Zierick Mfg. Corp., Beechwood & Rockdale Aves., New Rochelle, N. Y.

TESTERS, BATTERY. See Instruments, Storage Battery Testing

TESTERS, Bearing Wear

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.

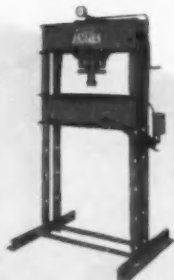
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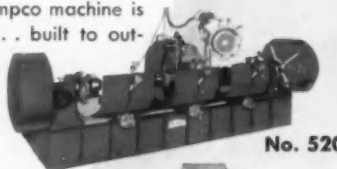
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Federal-Mogul Service, Div. of Federal-Mogul-Bower Bearings Inc., 11031 Shoemaker Rd., Detroit 13, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

TESTERS, Brake

(See Gages, Brake Drum; Gages, Brake Shoe)
American Instrument Co., Silver Spring, Md.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bendix Products Div. of Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind.
Bennett-Feragen, Inc., 1408 Jerome St., Niles, Mich.
Permafuse Corp., 675 Main St., Westbury, N. Y.
Tapley Products, 53 Park Pl., N. Y. 7, N. Y. (Decelerometer.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TESTERS, Cylinder Block

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Magnaflex Corp., 7300 W. Lawrence Ave., Chicago 31, Ill.
Moguloid Co. of America, 3520 W. Carroll St., Chicago 24, Ill.

TESTERS, Diesel Equipment

Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

TESTERS, Driver

Aligner, Earl, Arlington, Va.
Keystone View Co., Hamilton & Crandall Sts., Mendonville, Pa.
Porto-Clinic Instruments, Inc., 298 Broadway, New York 14, N. Y.

TESTERS, ELECTRICAL. See Instruments, Electrical Circuit Testing

TESTERS, ENGINE. See Analyzers, Trouble

TESTERS, Fuel Pump

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill.
Araco Mfg. & Sales Corp., 453 Tenth Ave., New York 18, N. Y.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa. (Diesel.)
Gale-Hall Engrg., Inc., North Hampton, N. H.
Hygrade Products Div., Standard Motor Products, Inc., 32-18 Northern Blvd., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.
Motoraide Corp., 2400 Emerald St., Philadelphia 25, Pa.
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Schauer Mfg. Co., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weidenhoff, Inc., Jos., Box 220, Algona, Iowa.

TESTERS, Gasoline Mileage

Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Blue Island Engrg. & Supply Co., 5840 S. Oakley Ave., Chicago 36, Ill.
Gale-Hall Engrg., Inc., North Hampton, N. H.
Gauthier, Donat A., 7416 Fox Ave., Detroit 6, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Motoraide Corp., 2400 Emerald St., Philadelphia 25, Pa.
Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill.

Sensational "Fast-Action"

WEAVER LO-HI-DRAULIC JACKS

enable shops to service fleets in less time
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Easy does it-

THE WEAVER WAY

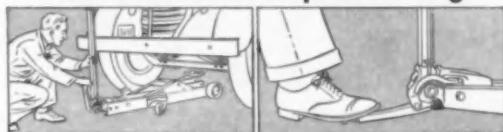


Take advantage of the extra convenience and operating ease of Weaver Lo-Hi-Draulic Jacks to speed up fleet maintenance and keep costs under control.

These Weaver Jacks offer such time-saving, effort-saving features as the "Quick-Lift" Lever . . . spring-balanced handle that operates on any phase of stroke . . . ball-bearing wheels and casters for easy maneuverability . . . long, low tip-proof frame to reach remotest spotting points . . . cupped saddle that can't slip . . . 24" lifting height for easy wheel clearance . . . safety devices to prevent overloading or accidental lowering.

The Model WA-75 Lo-Hi-Draulic Jack shown has full 10 ton lifting capacity to handle heaviest vehicles. Other models of 2-ton and 4-ton capacity are also available. See them at your Weaver Jobber today or write us for Bulletin C.C.J.-461.

"Quick-Lift" Lever speeds lifting!



AS HAND LEVER permits operator to see as he spots saddle under axle.

AS FOOT LEVER raises saddle quickly to load. Lifts light loads without use of handle. Ideal for operation in cramped quarters.

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Complete Weaver line includes: Twin Post Lifts . . . Single Post Frame Type Lifts . . . Unit Lifts . . . Bumper Lift . . . Car Washers . . . Wheel Alignment Equipment . . . Headlight Testers . . . Brake Testers . . . Wheel Balancing Equipment . . . Jacks . . . Wheel Dollies . . . Air Compressors.

The Indestructible Holland "3300"

That's a mighty strong word — *indestructible* — but what it means is what the Holland Hitch "3300" has got — a DROP FORGED STEEL BRACKET that makes this the one and only Fifth Wheel having the ultimate in unbreakable strength! Standardize on the "3300" and you can forget all about maintenance and repair, for these costs have been engineered right out. What's more, you'll save on payload, for not only is the Holland Hitch "3300" the toughest Fifth Wheel ever made, but it is also the Light Weight Champ — weighing in at only 255 pounds! So, what more can you ask for? This is IT — the indestructible Fifth Wheel — the Lightweight Champ that can't be knocked out! You can have it on all your new truck tractors by simply asking for it — and you can have it on all your present tractors by making the replacement now, once and for all time. Better check with your Holland Hitch distributor right now.

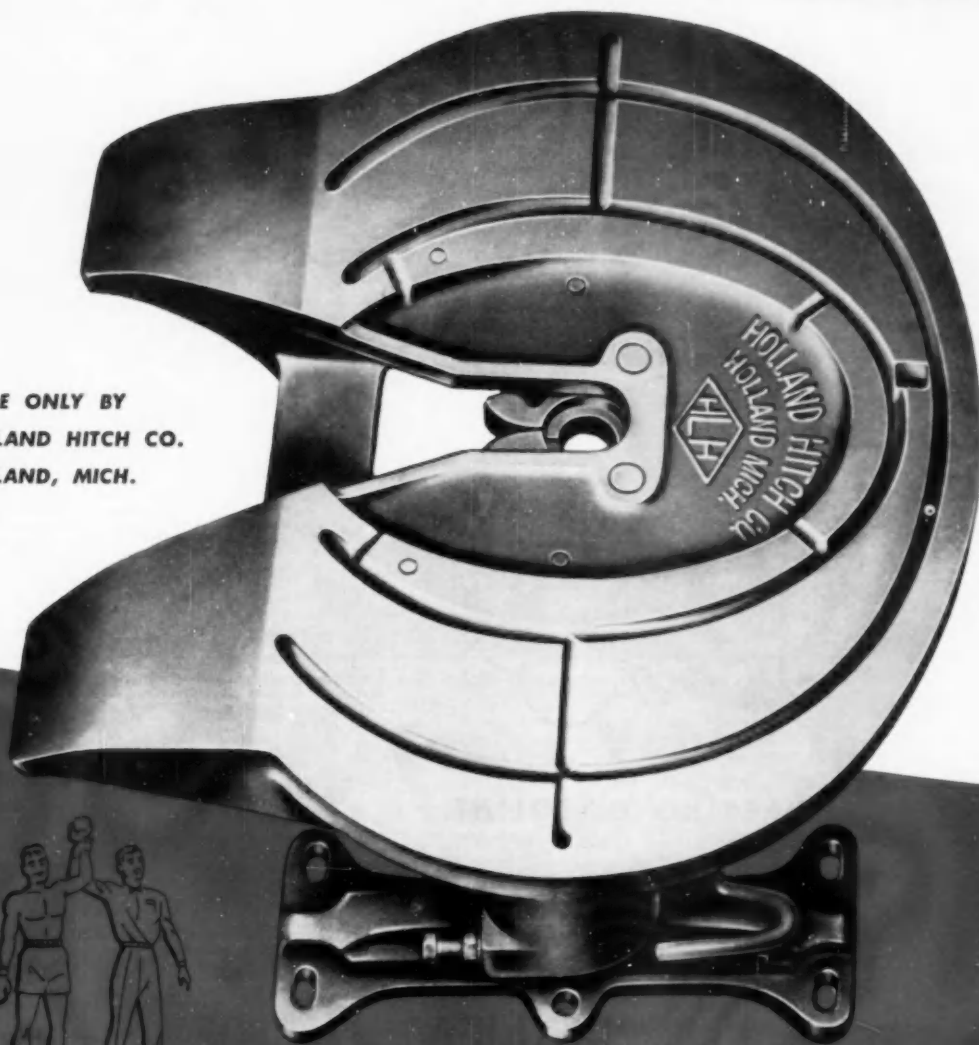
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Products Exclusively.**



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THE LIGHTWEIGHT CHAMP THAT CAN'T BE KO'D

**YOU'RE ON THE BALL
WITH THE "3300"**

Cast Steel Plate rides on two Forged Steel Balls which are integral with Drop Forged Brackets, providing the greatest and smoothest amount of bearing area of all Fifth Wheels. These indestructible brackets are mounted directly to tractor frame; no mounting plate required.



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You don't have to ram the King Pin into place; you just nudge it in gently and the exclusive Holland Hitch mechanical spring lock takes hold with the surest grip of any lock ever devised. Go easy on your equipment and your load; stop those devastating walllops required by ordinary compression locks, and take the easy way with the Holland Hitch "3300".



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TESTERS, Headlight, Optical

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Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.

Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J.

Manbee Equipment Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.

Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TESTERS, INNER TUBE, See Tanks, Inner Tube Testing

TESTERS, Inspection for Cracks in Parts

Magnaflux Corp., 5900 NW Highway, Chicago 31, Ill.

TESTERS, Radiator

Fisher & Porter Co., 700 Warminster Rd., Hattboro, Pa.

Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.

Stant Mfg. Co., Connersville, Ind.

TESTERS, Spark Plug

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.

Acme Electric Corp., Cuba, N. Y.

B. G. Corp., 321 Broad Ave., Ridgefield, N. J.

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.

Champion Spark Plug Co., 900 Upton Ave., Toledo, Ohio.

Cropley Instruments, 10 S. River St., Aurora, Ill.

Fleetcraft, Inc., 111 W. Monroe Ave., Chicago 1, Ill.

Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.

Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.

King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.

Miller Co., L. B., 394 State St., Stamford, Conn.

Rinck-Mellwaine Inc., 16 Hudson St., New York 13, N. Y.

Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 22, Calif.

TESTERS, Valve and Clutch Spring

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Valve.)

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa.

Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. (For valve and clutch springs.)

Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.

Sturtevant Co., P. A., Addison, Ill.

Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.

THERMOMETERS, Recording and Indicating

Bacharach Industrial Instrument Co., 7096 Bennett St., Pittsburgh 8, Pa.

Barber-Colman Co., 1300 Rock St., Rockford, Ill.

Bristol Co., Waterbury 20, Conn.

Dillon Co., W. C., 14620 Keswick St., Van Nuys, Calif.

Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.

Foxboro Co., Neponset Ave., Foxboro, Mass.

Fress Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery indicating.)

Gotham Instruments, Div. of American Machine & Metals, Inc., 233 Broadway, New York 7, N. Y.

Illinois Testing Laboratories, 420 N. LaSalle St., Chicago, Ill.

Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill. (Indicating.)

Lewis Engineering Co., 339 Church St., Naugatuck, Conn.

Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.

Powers Regulator Co., 3400 Oaktown St., Spokane, Ill.

Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. (Indicating.)

Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.

Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.

United States Gauge Div., of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

THERMOSTATS

Barber-Colman Co., 1300 Rock St., Rockford, Ill.

Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio.

Bridgeport Thermostat Div., Robertshaw-Fulton Co., Milford, Conn.

Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill.

Detroit Controls Corp., 5900 Trumbull Ave., Detroit 8, Mich.

Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.

Evco Products Co., 160 W. 62 St., N. Y. 23, N. Y.

Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.

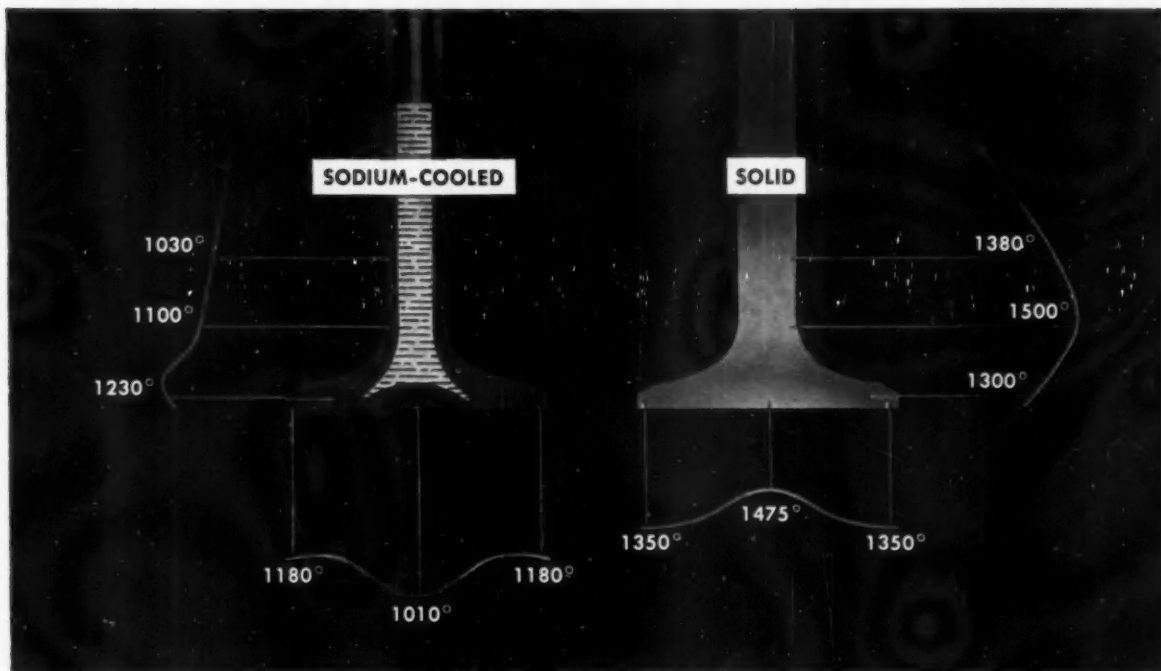
Fulton Syphon Div., Robertshaw-Fulton Controls Co., W. Cumberland St., Knoxville 1, Tenn.

Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.

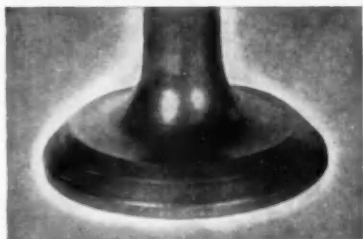


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ANN ARBOR, MICHIGAN

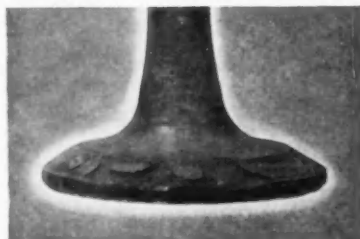
Eaton Sodium-Cooled Valves Run Cooler—



These curves show operating temperatures of Sodium-Cooled and Solid Valves under similar conditions of high output.



Eaton Sodium-Cooled Valve after 110,000 miles—still in good condition.



Conventional valve after 35,000 miles in same type of operation as Sodium-Cooled Valve shown above.

Cooler Valves Last Longer

Today's trend in engine design toward higher speeds and more economical fuel-air ratios results in higher temperatures for many operating parts—including exhaust valves. These higher temperatures sharply reduce valve resistance to corrosion and distortion, definitely limiting valve life. Eaton Sodium-Cooled Valves, operating at considerably lower temperatures, maintain corrosion resistance and strength.

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Eaton engineers will be glad to work with you in applying the benefits of Sodium-Cooled Valves to your engines.

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PRODUCTS: Sodium Cooled, Poppet, and Free Valves • Tappets • Hydraulic Valve Lifters • Valve Seat Inserts • Jet Engine Parts • Rotor Pumps • Motor Truck Axles • Permanent Mold Gray Iron Castings • Heater-Defroster Units • Snap Rings • Springtites • Spring Washers • Cold Drawn Steel • Stampings • Leaf and Coil Springs • Dynamatic Drives, Brakes, Dynamometers

threaded inserts to tires

CCJ'S PRODUCT DIRECTORY

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Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis 8, Minn. (Control systems, for buses.)

Ranco, Inc., 601 W. 5th Ave., Columbus 1, Ohio.

Spencer Thermostat Div., Metals & Control Corp., 34 Forest St., Attleboro, Mass.

Standard-Thomson Corp., Vandalia, Ohio.

United Electro Control Co., 85 School St., Watertown 72, Mass.
United Motor Service, General Motors Bldg., Detroit 2, Mich.

THIRD AXLE UNITS, See Axle Units, Third, for Trucks

THREADED INSERTS

Groov-Pin Corp., 1125 Hendricks Causeway, Ridgefield, N. J.

Heli-Coil Corp., 591 Shelter Rock Lane, Danbury, Conn.

National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio.

Roylyn, Inc., 1706 Standard Ave., Glendale 1, Calif.
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.

THREAD RESTORING TOOLS, See Tools Thread Restoring

TIMING CHAINS, See Chains, Timing

TIRE, Branding Irons

Everhot Mfg. Co., 87 S. 19th Ave., Maywood, Ill.

Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.

Merkert & Sons, 146-10 Jamaica St., Jamaica, N. Y.

Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.

Vulcan Electric Co., 88 Holten St., Danvers, Mass.

TIRE BUFFERS, See Buffers, Tire (Electric)

TIRE CARRIERS, See Carriers, Tire

TIRE CHAINS and EQUIPMENT, See Chains, Tire; also Adjusters, Tire Chains

TIRES, Pneumatic

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.

Armstrong-Norwalk Rubber Corp., 20 Glover Ave., Norwalk, Conn.

Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.

Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.

Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.

Denman Rubber Mfg. Co., Warren, Ohio.

Dunlop Tire & Rubber Corp., Sheridan Dr. & River Rd., Buffalo 5, N. Y.

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.

Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.

General Tire & Rubber Co., Englewood & Holmes Aves., Akron, Ohio.

Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.

Inland Rubber Corp., 515 Newman St., Mansfield, Ohio.

Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.

Laher Tire & Rubber Co., of Calif., Oakland, Calif.

Lee Rubber & Tire Corp., Conahocken, Pa.

McCreary Tire & Rubber Co., Box 700, Indiana, Pa.

Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.

Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.

Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.

Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.

Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.

Schenquit Rubber Co., Frank G., Railroad & Union Aves., Baltimore 11, Maryland.

Seiberling Rubber Co., Akron, Ohio.

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRES, Solid

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.

Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRE GAGES, See Gages, Tire Pressure

TIRE INFLATORS, See Chucks, Air (Tire Inflating); also Meters, Air Tower

TIRE RECAPPING MOLDS, See Molds, Tire Recapping and Retreading

TIRE REGROOVERS, See regroovers, Tire

TIRE REMOVING TOOLS, See Tools, Tire Removing and Replacing

TIRE REPAIR MATERIALS, See Compounds, Tire Repair

TIRE REPAIR TOOLS, See Tools, Tire

TIRE SPREADERS, See Tools, Tire Spreading

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Heavy-Duty HARDWARE

HERE'S a lock specially designed for heavy-duty service. It's sturdy—strong—durable—simple in design and easy to apply.

Locking bolts are held open or closed—under pressure. This prevents accidental opening. A simple, ingenious center mechanism snaps open or shut. No rattle or play.

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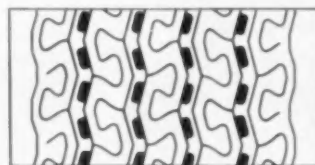
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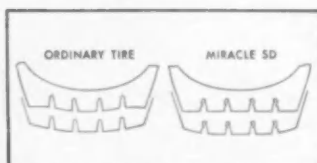
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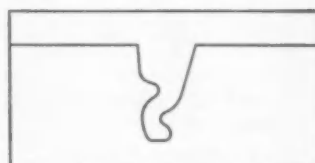
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Hawkinson Co., Paul E., Winter St., Minneapolis, Minn.
Penetred Corp., Marshfield, Wis. (Steel coil tread.)
Webster Rubber Co., Warren, Ohio.

TIRE VULCANIZERS. See Vulcanizers, Portable and Vulcanizer, Shop

TOOLS, Battery Service

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill. (Terminal crimpers.)
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. (Pliers, terminal tools, etc.)
Bishman Mfg. Co., Osseo, Minn.
Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. (Pliers and clippers.)
Christie Electric Corp., 3410 W. 67th St., Los Angeles 43, Calif.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 99, Ill.
General Scientific Equip. Co., 27th & Huntingdon Sts., Phila. 32, Pa.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.

CCJ'S PRODUCT DIRECTORY

Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Lincoln, Wis. (Terminal pullers.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lock & Co., K. J., 343 N. Gay St., Baltimore, Md.
Murray Corp., E. Joppa Rd., Towson 4, Md.
New Britain Machine Co., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukee, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (Terminal pullers.)
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y. (Terminal pullers.)
Utica Drop Forge & Tool Corp., 2500 Whiteboro St., Utica 4, N. Y. (Pliers.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
Wilke Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Pliers.)
Willard Storage Battery, Div. Electric Storage Battery Co., 246 E. 181st St., Cleveland 1, Ohio.
Wilson, Inc., K. R., Arcade, N. Y.

TOOLS, Body and Fender Repair, Hand

A-B-C Mfg. Co., 2757 N. Ruth St., Phila. 34, Pa.
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
Auto Specialties Mfg. Co., 643 Graven St., St. Joseph, Mich.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N. Alliance, Ohio.
Chicago Tool & Kit Mfg. Co., 230 N. Jefferson St., Chicago 6, Ill. (Hammers.)
Douglas Tool Co., 5251 Pattison Ave., St. Louis 10, Mo. (Body.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 99, Ill.
Fairmont Tool & Forging Inc., 10611 Quincey Ave., Cleveland 6, Ohio.
Heller Tool Co., Newcomertown, Ohio. (Files, etc.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Keysco Mfg. Co., 1244 E. 12th St., Oakland 6, Calif.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Nicholson File Co., 23 Acorn St., Providence 1, R. I. (Files.)
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio. (Body files.)
P & C Tool Co., Box 5926, Milwaukee, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. (Hand.)
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex. (Hand.)
Roberts Toledo Rubber Co., Prospect & MC E. R., Toledo 6, Ohio. (Rubber hammers.)
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Stream Line Tools, Inc., Highway 70, Conover, N. C.
Swiss Laboratory, 1633 Hamilton Ave., Cleveland 14, Ohio.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.

TOOLS, Body and Fender Repair, Portable Electric

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Red Devil Tools, Coit St., Irvington 11, N. J.

TOOLS, Body and Fender Repair, Portable Hydraulic

Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis. "Hein-Werner Push & Pull."
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.

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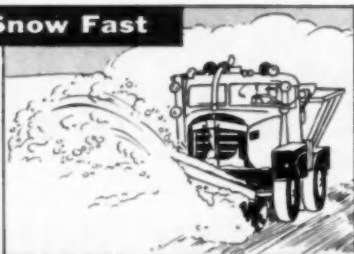
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1. Clears Snow Fast

Front speed plow removes a greater volume of snow at high speed—throws snow far to side—leaves less to re-handle—clears more miles per hour—requires less trips.



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Here's proof that your dollar buys more in a Walter Snow Fighter . . . more power, more traction, more capacity, more usefulness. Only specially-designed Walter Snow Fighters can mount and effectively use such advanced, high-volume auxiliary equipment.

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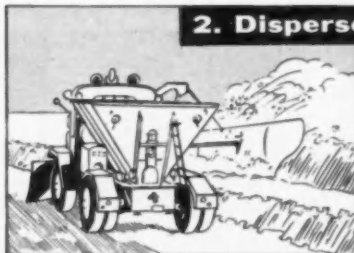
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Spring-cushioned, hydraulically-controlled 12 foot underbody blade scrapes hard-packed snow and ice clean down to highway, without damage to blade, truck or surface.

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Automatic spreader body of 10-ton capacity, spreads abrasives or chemicals at high speed, to any desired width. Controlled by one man in cab. Positive four-wheel traction prevents slipping on ice.

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NEW MOLDED-WOVEN COMBINATION OVERCOME HEAT FADE, REDUCE

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“Timber King” blocks have shown extraordinary results. The secret of their success is the woven block used in combination with the right molded block. A special

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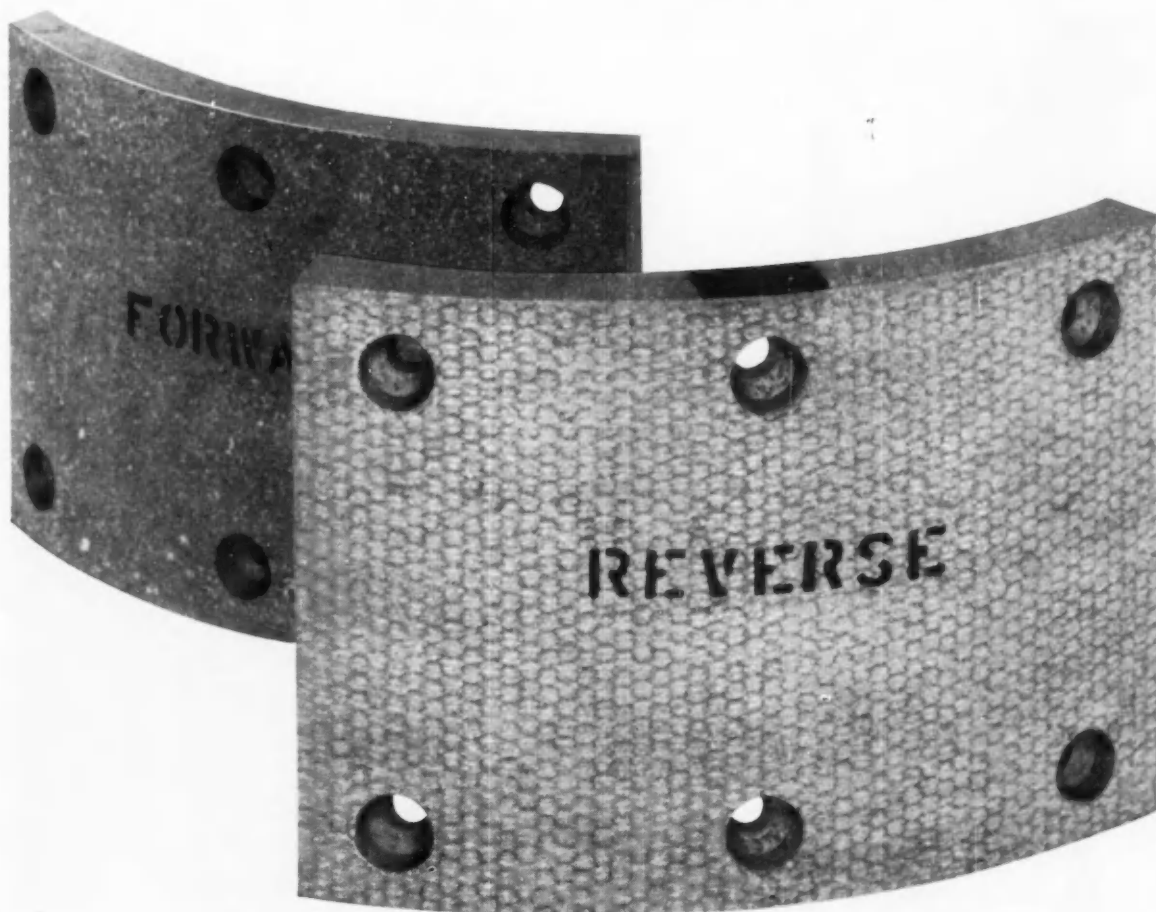
The Result

Even on the heaviest rigs in the toughest service, Grey-Rock “Timber King” blocks will improve lining life, overcome heat fade, and help solve the problem of broken drums. You can buy them with complete confidence. Write us, or ask your Grey-Rock jobber about them.



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**BLOCKS IMPROVE LINING LIFE,
DRUM BREAKAGE ON TOUGHEST RUNS**



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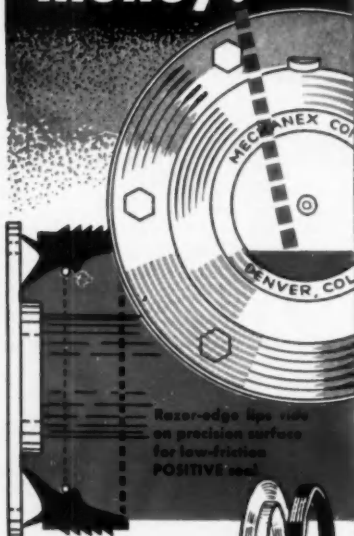
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Borm Mfg. Co., 23 N. Union St., Elgin, Ill. (Hammers.)
Brown Tool Mfg. Co., 9422 Trenton Ave., St. Louis 14, Mo.
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Sauschild Mfg. Co., F. J., 840 Main St., Oneonta, N. Y.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis. (Hammers.)
Seiden Pneumatic Tool Co., 419 Barrett St., Jackson, Mich. (Hammers.)
Thor Power Tool Co., 175 State St., Aurora, Ill. (Hammers.)
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

TOOLS, Body and Fender, Soldering (Advertisers Only)

Linde Air Products Co., Div. of Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.

TOOLS, Brake Cylinder Cleaning and Polishing

Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

TOOLS, Brake Spring Removing & Replacing

Barrett Equipment Co., 21st & Cass, St. Louis 6, Mo.
Cornwell Quality Tools Co., Mogadore, Ohio.
Krome Co., 39 Mulberry St., Reading, Pa. (Compressors.)
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 842 N. Cedar St., Owatonna, Minn.

CCJ'S PRODUCT DIRECTORY

Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Utica Drop Forge & Tool Corp., 2500 Whiteboro St., Utica, N. Y. (Pliers.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

TOOLS, Brake Band Testing

Permafuse Corp., 675 Main St., Westbury, N. Y.

TOOLS, Clutch Alignment

(See also Machines, Clutch Rebuilding)
Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Miller Mfg. Co., 5919 Tremen Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Rovtar Tool Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Contact Point Reconditioning

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.

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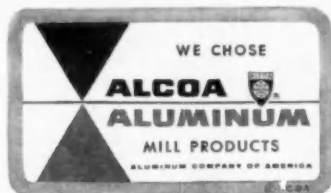
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 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
 Miller Co., L. B., 394 State St., Stamford, Conn.
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.

New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio.
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Rinck-McIlvaine, Inc., 16 Hudson St., New York 13, N. Y. (Rimac.)
 Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
 Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa.
 Wilson, Inc., K. R., Arcade, N. Y.

TOOLS, Machines, Cylinder Reboring, Portable

(See also Hones, Cylinder; also Deglazers, Cylinder)
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.
 Evans Reamer & Machine Co., New Lexington, Ohio.
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
 Rottler Boring Car Co., 1727 First Ave., S., Seattle 4, Wash.
 St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.
 Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.
 Van Norman Co., 2640 Main St., Springfield 7, Mass.
 Wilson, Inc., K. R., Arcade, N. Y.

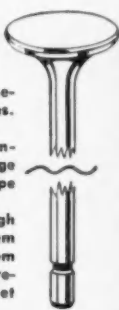
TOOLS, Hand

Agner Simplex Co., 106 Pine St., Burlington, Wis.
 Apco Mossberg Co., Lamb St., Attleboro, Mass.
 Apex Machine & Tool Co., 1925 Patterson Blvd., Dayton, Ohio.
 Armstrong Bros. Tools Co., 6200 Armstrong Blvd., Chicago 30, Ill.
 Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
 Atmors Tool Co., 2411 Chestnut St., Oakland 7, Cal.
 BMC Mfg. Co., 5 Griswold St., Binghamton, N. Y.
 Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.
 Rath & Co., John, 18 Grafton St., Worcester, Mass.
 Bay State Tap & Die Co., Chauncey St., Mansfield, Mass.
 Beall Tool Div., Herbrand & Co., East Alton, Ill. (Ratchet.)
 Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y.
 Resley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
 Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.
 Blackhawk Mfg. Co., 5325 W. Rogus St., Milwaukee 1, Wis.
 Roker & Co., 101 Duane St., New York W Y
 Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
 Bremil Mfg. Co., 1700 Pittsburgh Ave., Erie, Pa.
 Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn.
 Brubaker & Bros., Co., W. L., Millersburg, Pa.
 Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. (Rubber mallets.)
 Callahan Mfg. Co., 90 Halton St., Danver, Mass.
 Cal-Van Machine Products, Inc., 1809 S. Water St., Jackson, Miss.
 Card Mfg. Co., S. W. Div., Union Drill Co., Rumford Ave., Mansfield, Mass.
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 Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio.
 Cleveland Steel Tool Co., 660 W. 82nd St., Cleveland, Ohio.
 Cornwell Quality Tool Co., Mogadore, Ohio.
 Conant & Donelson Co., Conway, Mass.
 Continental Rubber Works, 1902 Liberty St., Erie, Pa.
 Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. (Wheel bearing adjusting nut.)
 Danielson Mfg. Co., Danielson, Conn.
 Delaware Tool Steel Corp., 3300 Market St., Wilmington 99, Del.
 Division Lead Co., 836 W. Kinzie St., Chicago, Ill. (Lead and babbitt.)
 Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.
 Duro Metal Products Co., 2640 N. Kildare St., Chicago 39, Ill. (Duro Chrome.)
 Fairmount Tool & Forging Co., 10611 Quincy St., Cleveland 6, Ohio.
 Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn.
 G. M. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
 Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Lead, babbitt, copper, rubber, etc.)
 Geometric Tool Co., Div. of Greenfield Tap & Die Corp., Blake & Valley Sts., New Haven 15, Conn. (Solid adjustable.)
 Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Rubber mallet.)
 Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
 Greene, Tweed & Co., North Wales, Pa. (Plastic.)

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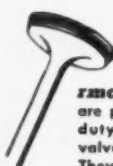
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—a "must" for increased horsepower and higher compressions. **FMC** bi-metal valves feature: **HEADS:** of austenitic, non-magnetic, steel. Resists warpage and corrosion. Keeps its shape under extreme temperatures. **STEMS:** **FMC** specification high alloy steel. Provides maximum wear resistance at high stem temperatures. Hardened to prevent "riveting" from tappet impact.



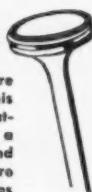
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FMC valves with Stellite faces are preferred for use in heavy-duty engines. They increase valve life from two to five times. They maintain better seating and compression under the hottest and toughest operating conditions—keeping horsepower up, fuel consumption down.



HEAT BANDS an FMC exclusive

Some engines burn valves more readily than others. Combat this condition with **FMC** "heat-banded" valves. A band of a non-burning alloy fused around the outer edge of the head, where most burning takes place, helps prevent burning, increases valve mileage.



ORIGINAL EQUIPMENT ENGINEERED

FMC, a basic manufacturer supplying original equipment for over a half century, knows the engineering and production requirements of the engine manufacturer. This assures you of a better manufacturing, more accurate tolerances and original equipment performance with every **FMC** valve.



LOOK FOR THIS SEAL on every **FMC** heavy-duty valve box. It's your assurance of dependable "super-duty" performance under the toughest operating conditions.

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- Saves Time
- Eliminates Waste
- Cuts Costs
- Speeds up service

DITZLER'S Exact-Weight Color Mixing Service is outstanding for accuracy and simplicity because it combines precise measurement with positive agitation. It gives you colors you need quickly, efficiently and economically.

Color Matches Accurately Mixed by Weight

• The **Exact-Weight Scale** used in this system is a precision instrument. It can measure amounts as fine as 1/5000ths of a gallon. Many of the colors used on today's new cars require such minute tints for accurate matching.



More than 8,000 Laboratory-Controlled Formulas

• **Ditzler's Color Mixing Service** offers you 4,000 formulas for lacquers and 4,000 for enamels. Included is a wider range of base colors than any other system. These help you to duplicate accurately pigmentation of original finish and to produce similar weathering to that of the color being repainted. Ditzler's formula books are supplemented with bi-weekly data on new and current colors.



New Smooth-Running Mixing Equipment

• Ditzler has developed power mixing units that can be tailor-made to fit each shop's requirements. These range from the Ditzler Moto-Mix which mixes quarts and gallons of base colors, one at a time, for the average shop. This is a self-contained unit with motor, switch and connecting cord.



DITZ-MIX for larger shops

• Ditzler also offers DITZ-Mix power units. These are available in units which mix 7 gallons at one time, or 9 quarts, to units which mix 21 gallons and 9 quarts simultaneously. For the busy shop these are ideal as all base colors for lacquer or enamel can be mixed at one time.

We'll be glad to send you complete information on this complete mixing service. Ask for Folder No. 5626.

DITZLER COLOR DIVISION, Pittsburgh Plate Glass Company, Detroit 4, Mich.



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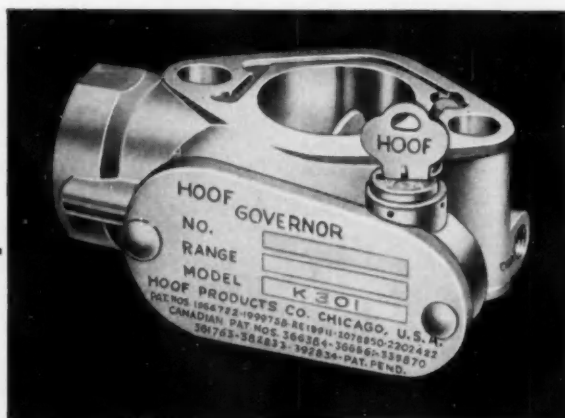
CCJ'S PRODUCT DIRECTORY

TOOLS—continued

Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.
Hanson-Whitney Machine Co., 169 Bartholomew Ave., Hartford 2, Conn.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.
Hendry Co., C. J., 27 Main St., San Francisco 5, Calif.
Henry & Allen, Inc., 2 Wadsworth St., Auburn, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.

Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis, Minn. (Impact for buses, trucks, and trailer wheels.)
Jergens Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio. (For White trucks only.)
K-D Mfg. Co., 826 N. Plum St., Lancaster, Pa.
Kaslot Mfg. Co., 3927 N. Kedzie Ave., Chicago 18, Ill. (Buckskin fabric.)
Kennedy Service Tools Inc., P. O. Box 38, Mogadore, Ohio. (Rubber, fibre, plastic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.

Lambert Products, Inc., 613 Hunter Ave., Dayton, Ohio. (Wheel.)
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa. (Solid Adjustable.)
Larson Tool & Stamping Co., Olive St., Attleboro, Mass.
Lesterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Rubber mallets.)
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Center.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Rawhide.)
Matticks Mfg. Co., 4156 E. Pacific Way, Los Angeles 23, Calif. (Rubber.)
Mayhew Steel Products, Inc., Shelburne Falls, Mass.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio.
Metal Engineering Co., 134 N. La Salle St., Chicago 2, Ill.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Millers Falls Co., Greenfield, Mass. (Brass.)
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Murchev Machine & Tool Co., 12800 Puritan St., Detroit, Mich. (Solid and Adjustable.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
New England Pressed Steel Co., Washington Ave., Natick, Mass.
New Plastic Corp., 1017 N. Sycamore Ave., Los Angeles, Calif.
Niagara Machine & Tool Works 683 Northland Ave., Buffalo 11, N. Y.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box G, Milwaukee, Ore.
Park Metalware Co., Thorne Ave. & B. R. & P. Tracks, Orchard Park, N. Y.
Peck, Stowe & Wilcox Co., 217 Center St., Southington, Conn.
Peterson Mfg. Co., De Witt, Neb. "Vise-Grip." (Toggle type.)
Proto Tools, 2299 Santa Fe Ave., Los Angeles 54, Calif.
Polaris Products, Inc., 1006 S. Barclay St., Milwaukee, Wis.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford, Conn.
Quality Tool Corp., New Wilmington, Pa.
Reiff & Nester Co., Lykens, Pa.
Reltool Corp., 712 W. Michigan St., Milwaukee 2, Wis.
Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich. (Rubber products.)
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill.
Smith & Sons, Inc., Sermour, Oakville, Conn. (Sole distributors, John H. Graham & Co., 105 Duane St., New York, N. Y.)
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Standard Tool Co., 6909 Central Ave., Cleveland 4, Ohio.
Stanley Tools, 111 Elm St., New Britain, Conn.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Stevens-Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Storts & Son, John, 210 Vine St., Philadelphia 6, Pa.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.
Tri-Grip Co., 2053 Twelfth St., Cuyahoga Falls, Ohio.
Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Armory St. (Roxbury), Boston, Mass.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Tuck Mfg. Co., 74 Ames St., Brockton, Mass.
Union Tool Co., 48 E. River St., Orange, Mass.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York, N. Y.
Usheo Mfg. Co., 135 Tonawanda St., Buffalo 7, N. Y.
Utica Drop Forge & Tool Corp., 2500 Whitesboro Rd., Utica 4, N. Y.
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Plastic.)
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt.



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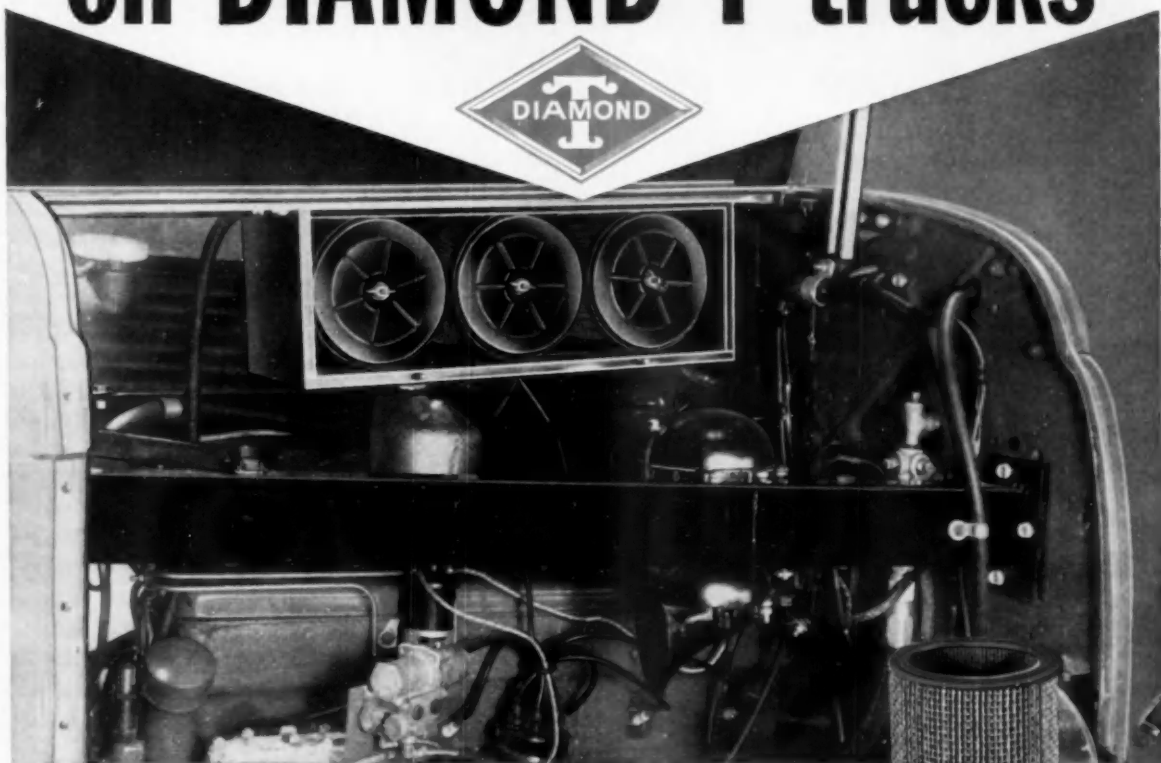
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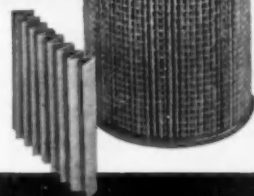
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COMMERCIAL CAR JOURNAL, November, 1956

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Vicheck Tool Co., 3001 E. 87th St., Cleveland, Ohio.
Walworth Co., 60 E. 42nd St., New York 17, N. Y.
Western Automatic Machine Screw Co., 762 Lake Ave., Elyria, Ohio.
Whitaker Mfg. Co., 409 S. Greene St., Chicago, Ill.
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. (interchangeable).
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wiss & Son Co., J., 33 Littleton Ave., Newark, N. J.
Wood & Spencer Co., 1930 E. 61st St., Cleveland 2, Ohio.
Wright Tool & Forge Co., 42 E. State St., Bakerton, Ohio.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Ignition

Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Herbrand Div., Ringham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Look & Co. R. J., 343 N. Gay St., Baltimore, Md.
Metal Luking Co., 134 N. LaSalle St., Chicago, Ill.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5925, Milwaukie, Ore.
Proto Tools, 2009 Santa Fe Ave., Los Angeles, Calif.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

TOOLS, Injector Service

Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

TOOLS, Piston Pin Removing and Installing

Clark-Feather Mfg. Co., 116 W. Railroad Ave., Ft. Morgan, Colo.
Cornwell Quality Tools Co., Mogadore, Ohio.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Master Signal Co., 1005 Sutton St., Howell, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Piston Ring Compressing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.
 Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
 Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
 Cornwell Quality Tools Co., Mogadore, Ohio.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
 Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
 Kennedy Service Tools Co., P. O. Box 28, Mogadore, Ohio.
 Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 Master Signal Co., 1005 Sutton St., Howell, Mich.
 Miller Co., L. B., 394 State St., Stamford, Conn.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
 P. & C. Tool Co., Box 5926, Milwaukie, Ore.
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
 Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
 Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
 Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif.
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.
 Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Piston Ring Groove Cleaning

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.
 Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
 All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.
 Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
 Groove-Rite Tool Co., 40300 Grand River Ave., Farmington, Mich.
 Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.
 Master Signal Co., 1005 Sutton St., Howell, Mich.
 Miller Co., L. B., 394 State St., Stamford, Conn.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
 Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill.
 Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
 Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
 Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif.
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
 Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.
 Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Regrooving & cleaning lathe.)
 Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

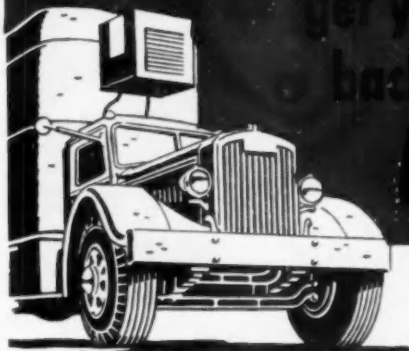
TOOLS, Spring Spreading

Mesco Products, Crete, Nehr.
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
 Wilson, Inc., K. R. Arcade, N. Y.
 Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Thread Restoring

Armstrong Mfg. Co., 225 Lafayette St., New York, N. Y.
 Arso Mfg. & Sales Co., 451 Tenth St., New York 18, N. Y.
 Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.

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Faster!

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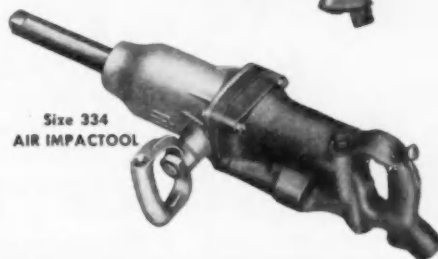
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"CLEAN MOTORS INCREASE USED CAR SALES..."

All You Need



1. Magnusol



2. Pressure Sprayer



3. Hydro-Air Flush Gun



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Magnusol is simply sprayed on . . . let penetrate a few minutes . . . then flushed off with a pressure stream of water.

Check these Magnusol Method advantages against your present used car motor cleaning procedure:

- No costly outlay for expensive cleaning equipment.
- Instant use—no heating required.
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- Lowest material and labor cost per car cleaned.
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- No unpleasant or dangerous caustic fumes.

DEALERS—Use Magnusol to clean bodies, bumpers and wheels of new cars stored outdoors.

For complete information, write Magnus, 38 South Ave., Garwood, N. J., for Magnus Automotive Cleaning Handbook.

**AUTOMOTIVE DIVISION
MAGNUS CHEMICAL CO., INC.**

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TOOLS—continued

Buckingham Mfg. Co., Inc., 7 Travis St., Binghamton, N. Y.
C. & G. Wheel Puller Co., Scio, N. Y.
Cornwell Quality Tools Co., Mogadore, Ohio. (Axle.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Valve stem.)
Grayson Tool Co., 1412 W. 2nd St., Hastings, Nebr. (Axle.)
Hell-Coil Corp., 591 Shelter Rock Lane, Danbury, Conn.
Jaw Mfg. Co., 39 Mulberry St., Reading, Pa. (Files, dies.)
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio. (Axle.)
Kent-Moore Organization, Inc., 1501 S. Jackson, Mich. (Axle.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Miller Co., L. B., 391 State St., Stamford Conn. (Axle.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Axle.)
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Reiff & Nestor Co., Lykens, Pa.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. (Axle.)
Snap-On Tools Corp., 8026-K 25th Ave., Kenosha, Wis.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Axle.)
Zaerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich. (Axle.)

TOOLS, Tire

A. B. C. Mfg. Co., 340 N. Front St., Philadelphia 6, Pa.
Apco Mossberg Co., 187 Lamb St., Attleboro, Mass.
Automotive Equipment Mfg. Co., 11000 S. Alameda St., Lynwood, Calif. (Also air operated bead breakers.)
Ballston Tire Mould Co., 524 Ceres Ave., Los Angeles 13, Calif.
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
Blahman Mfg. Co., Osseo, Minn.
Bos Tool Co., Delaware & Main Sts., Penns Grove, N. J. (Hydraulic tire demounting; sole distributors Jack P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Bridgeport Hardware Mfg. Corp., Scofield Ave., Bridgeport, Conn.
Cam Tool Co., 1038 Larkin St., San Francisco, Calif. (Tire changes, also bead breakers; tire lifters.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. (air powered bead breakers.)
Costs Co., 3001 5th Ave. S., Fort Dodge, Iowa. (Sole distributors Jack P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio (Tire valve tools.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
E-Z Lift Mfg. Co., Div. Brummeler Steel Products Corp., 1415 Ionia Ave., S.W., Grand Rapids, Mich.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio. (Hydraulic.)
Greb Co., 181 Canton St., Stoughton, Mass.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hennessy Sales Co., Jack P., 12 Depot Square, Englewood, N. J.
Herbrand Div., Ringham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Hogson & Pettis Mfg. Co., 141 Brewery St., New Haven, Conn.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y. (Pneumatic.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Probing.)
Keel & Co., 65 W. Penn St., Philadelphia 41 Pa. (Tire rasps.)
Ken Tool Mfg. Co., 768 E. North St., Akron 1, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kirsap Industries, Inc., Livingston, N. J.
Lectrolite Corp., Hickory St., Defiance, Ohio.
Maremont Automotive Products, Inc., 8 Ashland Ave. at 16th St., Chicago 16, Ill.
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)
Meco Products, Crete, Nebr.

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Reports from truck fleet owners indicate even better performance for truck mufflers made of Armco ALUMINIZED STEEL.

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ARMCO DRAINAGE & METAL PRODUCTS, INC.
THE ARMCO INTERNATIONAL CORPORATION



TOOLS—continued

Miller-Henderson Co., 302 E. Main St., Bowling Green, Ky.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Speedmaster, Ltd., 3814 Piedmont Ave., Oakland 11, Calif. (Bead breakers; also tubeless tire mounter.)

Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Vichek Tool Co., 3001 E. 87th St., Cleveland 4, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Chain Attaching

American Chain Div., American Chain & Cable Co., 454 E. Princess St., York, Pa.
Hodell Chain Co., Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 3, Ohio.

TOOLS, Tire Chain Repair

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.
Columbus-McKinnon Chain Corp., Tonawanda, N. Y.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Manley Div., American Chain Co., 1100 E. Princess St., York, Pa.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.
St. Pierre Chain Corp., Frank St., Worcester, Mass.

TOOLS, Tire Removing and Replacing

Big Four Industries, Inc., 5938 Carthage Ave., Cincinnati 12, Ohio.
Bishman Mfg. Co., Osseo, Minn.
Branick Mfg. Co., Fargo, N. D.
Chicago Pneumatic Tool Co., 8 East 44th St., New York 17, N. Y.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Trucks; sole distributors J. P. Hennessey Sales Co., 12 Depot Square, Englewood, N. J.)
Coats Loaders & Stackers, Inc., 3001 Fifth Ave., S., Fort Dodge, Iowa. "Iron Tireman."
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind.
Ken-Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.
Kerklings-Martin, Inc., San Fernando, Calif.
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. (Hand or Hydraulically operated.)
Salsbury Corp., Tiremaster Div., 1161 E. Florence Ave., Los Angeles 1, Calif.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Spreading

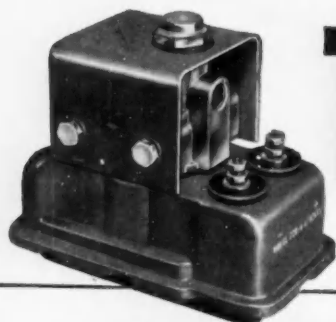
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bishman Mfg. Co., Osseo, Minn.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Branick Mfg. Co., Fargo, N. D.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Truck; sole distributor J. P. Hennessey Sales Co., 12 Depot Square, Englewood, N. J.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kennedy Service Tools Co., P. O. Box 28, Mogadore, Ohio. (Hand.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lummis Mfg. Co., 2242 E. Foothill Blvd., Pasadena 8, Calif.
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)
Meeco Products, Crete, Neb.
Miller Mfg. Corp., C. E., 1400 Meridian St., Anderson, Ind.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Pneumatic.)

TOOLS, Tire Valve Retreading

Acme Air Appliance Co., 109 Hinsdale St., Glenmore, Brooklyn 7, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken-Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.

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and brake drums*



When Roadway Express, Inc., ordered its first trucks it specified Dayton Steel wheels and brake drums. Only recently . . . 25 years later . . . Roadway added the latest of its 3,100 units and again demanded Dayton Steel wheels.

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landing gears

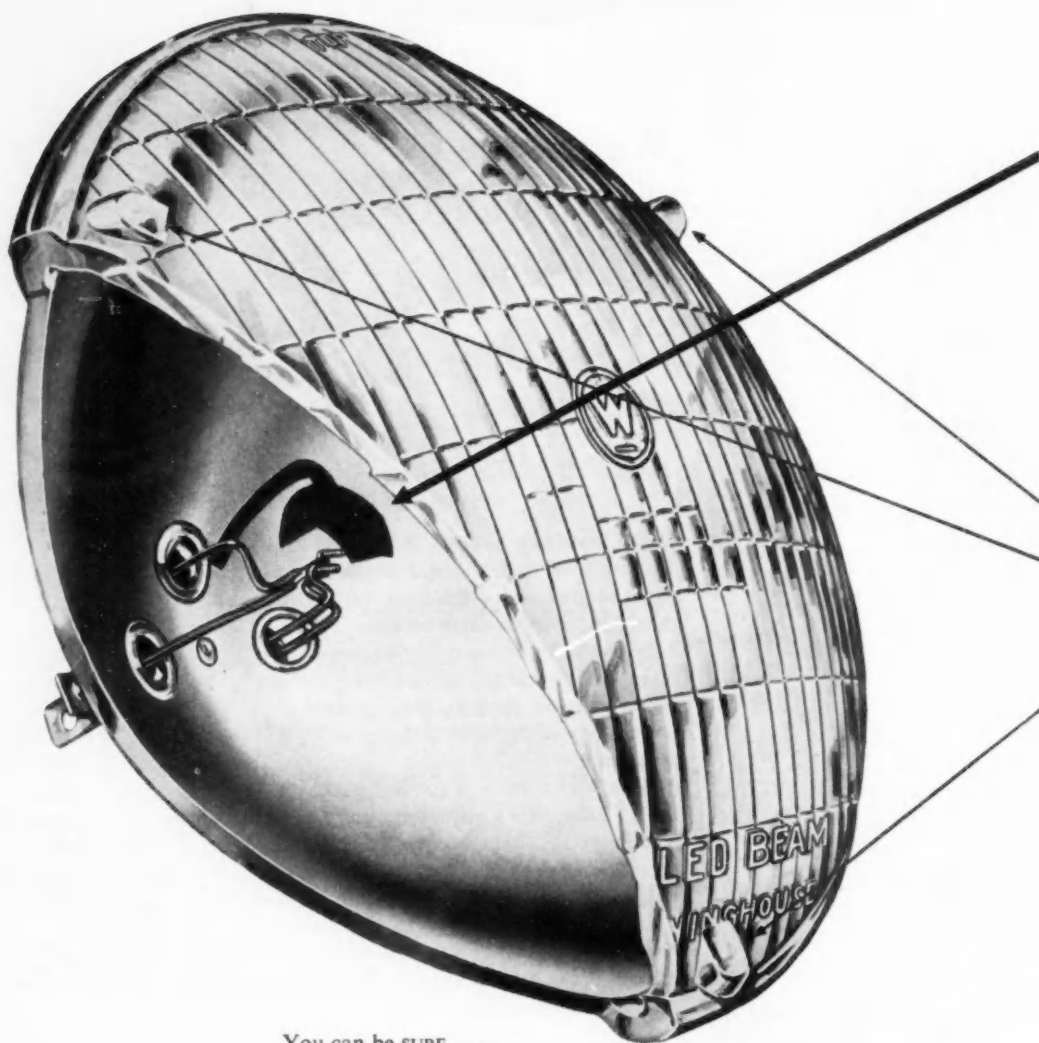


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SAFE-T-BEAM™ *headlamps*

these new safety features!

1 EXCLUSIVE 2-BEAM GLARE SHIELD for full glare protection on both High and Low Beams!



You get a safety *exclusive* when you use new Westinghouse SAFE-T-BEAM Headlamps! For only SAFE-T-BEAM Headlamps stop "bounce-back glare" on High Beam as well as on Low Beam. And make no mistake about it . . . this is an *essential* difference. A difference drivers recognize instantly.

Better See-ability on clear nights too!

- Up to 25% more light on both beams!
- Low beam up to 80' longer!
- More light on the right!

2 NEW AIMER BUTTONS for quick, precise mechanical aiming!

Assure accuracy . . . Perfect aiming every time—buttons seat the aimer accurately in relation to the direction of the light beam. Westinghouse SAFE-T-BEAM Headlamps can also be aimed by other aiming machines or screen methods.

Save time . . . It takes only a few minutes to install and aim Westinghouse SAFE-T-BEAM Headlamps—can be done in broad daylight!

Save money . . . A screwdriver and any of the low-cost mechanical aimers on the market today are all that's needed!

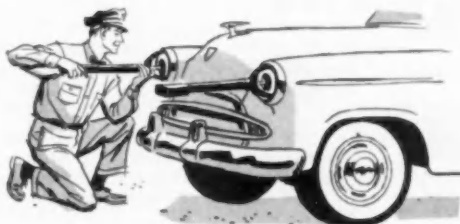
Save space . . . The job requires only a few feet in front of the car—won't interfere with other shop work. Can be done indoors or out.



All other new headlamps: Stray upper light from High Beam strikes fog, rain, snow . . . bounces dangerous, blinding glare back into driver's eyes. Thus all other new headlamps limit the driver to Low Beam just when extra visibility from High Beam is needed most.



New Westinghouse SAFE-T-BEAM Headlamps: Exclusive 2-Beam Glare Shield screens stray upper light from High Beam as well as from Low Beam . . . to eliminate bounce-back glare! *Only* new Westinghouse SAFE-T-BEAM Headlamps let the driver select the beam that best suits road conditions.



All three types of new Westinghouse SAFE-T-BEAM Headlamps—the 5040S (6-volt, 5400S (12-volt) and the 5440S (12-volt) (heavy truck—bus)—have the 2-Beam Glare Shield and the Aimer Buttons.

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Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Cal-Van Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Capwell Mfg. Co., 60 Governor St., Hartford, Conn.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.

G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
J & J Machine Co., 15420 St. Clair Ave., Cleveland 10, Ohio. (Sole distributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.)
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lender Screw & Mfg. Co., 3805 E. 91st St., Cleveland 5, Ohio.
Logansport Machine Co., Center Ave., Logansport, Ind.

Miller Co., L. B., 394 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa.
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Rineck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.



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Or, at the very least, the goodwill of a customer is at stake. And that's mighty important, too.

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P & G Mfg. Co., 305 N.E. Russell St., Portland 12, Ore.

TOOLS, Valve Grinding or Lapping, Hand

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y.
Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif. (Air-driven.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Mfg. Co., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y. (Valve grinding.)
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Vacuum.)
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Look & Co., R. J., 343 N. Gay St., Baltimore, Md.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Rineck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis. (Lapping.)
Spraker Mfg. Co., 1411 E. 20th St., Indianapolis 7, Ind.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Guide Cleaning

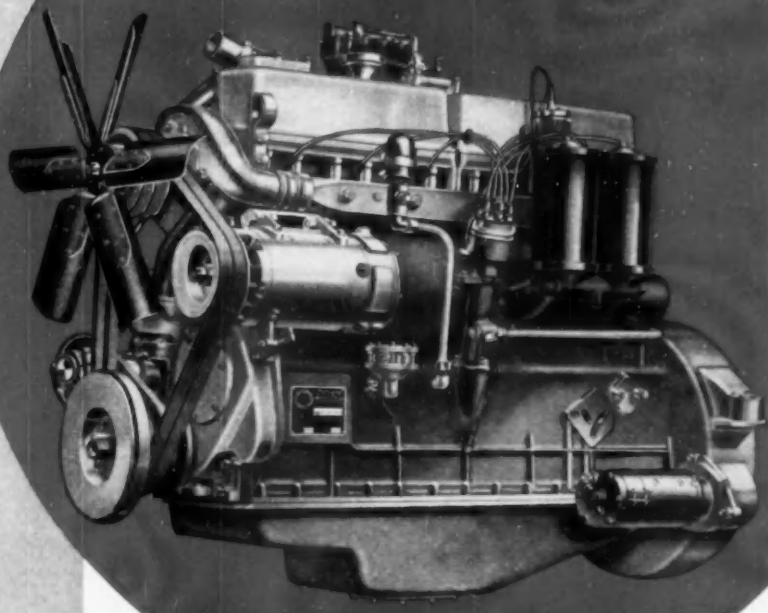
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cornwell Quality Tools Co., Mogadore, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Co., L. B., 394 State St., Stamford, Conn.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. (Brushes, for hand use or with portable drills.)
Rineck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill. (Hand.)
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Thor Power Tool Co., 175 State St., Aurora, Ill.
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

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275 h.p. at 2000 RPM



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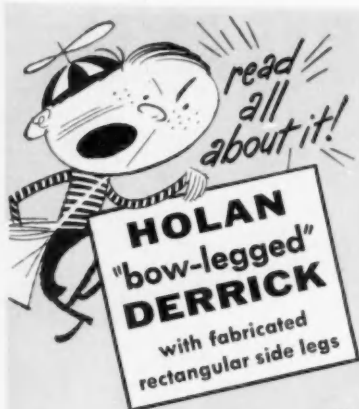
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tools

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Atmura-Mechanico, 3561 Lakeshore Ave., Oakland 10, Calif.
Bishman Mfg. Co., Osseo, Minn.
Cornwell Quality Tools Co., Mogadore, Ohio.
Hub City Iron Co., 218 1st Ave. S.W., Aberdeen, S. Dak.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.
National Machine & Tool Co., 4077 Page Ave., Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Rinck-Illwaine, Inc., 16 Hudson St., New York 13, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill.

TOOLS, Valve Lifting and Spring Compressing

All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.
Arso Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Associated Producers, Inc., 1603 Fisher Bldg., Detroit 2, Mich.
Clara-Feather Mfg. Co., 116 W. Railroad Ave., Fort Morgan, Colo.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Houser Engrg. & Mfg. Co., 200 S. Spring St., Bluffton, Ind.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa. (Valve lifting.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Waterloo Valve Spring Compressors Co., 200 Anshorough Ave., Waterloo, Iowa.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, Inc., K. R., Arcade, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Seat Installing, Removal

Bishman Mfg. Co., Osseo, Minn.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D.
Speaker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.

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GENERAL ELECTRIC RADIO helps cut driver overtime, eliminates parking to call office. Radio-equipped vehicles make a tough job run smoother, quicker.

HEALZER CARTAGE COMPANY BOOSTS POUNDS-PER-MAN-HOUR RATIO WITH RADIO-EQUIPPED VEHICLES

Midwest Carrier Coordinates City Pick-ups With General Electric Mobile Radio—Finds Overhead Reduced, Service Speeded

Healzer Cartage Company serves a 14-terminal route extending from Dodge City to Milwaukee. The firm's Kansas City, Mo. terminal is headquarters and prime market.

G-E Radios In Pick-up Vehicles

In Kansas City, 15 radio-equipped Healzer vehicles handle daily pick-ups—returning cargos to the main terminal for reloading on over-the-road rigs. To do this job smoothly and quickly, Healzer relies on General Electric radio.



Pounds-Per-Man-Hour Increase With Radio

With radio, terminal dispatcher is in constant contact with vehicles. Radio helps check available capacity on the street, directs pick-ups, helps prevent jams at the loading docks, and cuts driver overtime. Vice President Raymond Collins feels these factors help raise the pounds-per-man-hour ratio for Healzer Cartage Company, improve service, and build customer good will.



HEALZER DISPATCHER is in contact with vehicles as much as 10 miles distant. Pick-up orders, changes, break-downs, are communicated instantly.

New G-E Progress Line Radio

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Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, E. D.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Rottler Boring Bar Co., 513 N. 36th St., Seattle, Wash.

Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.
Wilson, Inc., K. R., Arcade, N. Y.

TOOLS, Wire Stripping

Burndy Engineering Co., Norwalk, Conn.
Crescent Co., 20 Central Ave., Pawtucket, R. I.
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill. (Sole distributors Wood Specialty Mfg. Co. Sales Div., 919 Taylor Ave., Rockford, Ill.)
Holub Industries, Inc., 413 De Kalb Ave., Sycamore, Ill.

Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Martindale Electric Co., 1340 Third Ave., Cleveland 7, Ohio.

TORCHES, Hand

Bernz Co., Inc., Otto, 280 Lyell Ave., Rochester, N. Y.
Precision Engineering & Mfg. Co., Saginaw, Mich.
Pressure Products Corp., 140 N. Dearborn St., Chicago 2, Ill.

TORQUE WRENCHES, See Wrenches, Torque

TOWERS, Repair or Service

(For use in overhead repairs)
Crown Steel Products Co., Orrville, Ohio. (Ladders.)
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo.
Memco, 1007 N. W. 36th St., Oklahoma City 2, Okla. (Ladders.)
Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.

TOWING EQUIPMENT. See Hooks, Towing; also Bars, Towing; also Cranes, Service Truck

TRAILERS, Automobile Transport

Fruehauf Trailer Co., 10904 Harper Ave., Detroit 32, Mich.
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich.
Traffic Transport Engr., Inc., 14301 Schades Ave., Dearborn, Mich.
Troyer Corp., 1445 Meylert Ave., Scranton, Pa.
Whitehead & Kales, 58 Hiltiner St., River Rouge 18, Mich.

TRAILERS, Commercial

Aluminum Body Corp., 1600 Washington Blvd., Montebello, Cal.
Ace Trailer & Equipment Co., Div. Reliable Automotive Co., H & San Joaquin Sts., Fresno, Cal. (6-wheel, 4-wheel and semi.)
Adams Engrg. Co., 31711 Salon Rd., Salon, Ohio. (Pole and cable reel.)
American Body & Trailer, Inc., P. O. Box 1150 Oklahoma City 1, Okla. (Semi.)
American Trailer & Mfg. Co., 1017 Santa Fe Ave., Los Angeles 21, Calif.
Andrews Industries, Inc., 1901 Alabama Ave., St. Louis 11, Mo. (Refrigerated, etc.)
Anthony Co., Streator, Ill. (Dump and frameless dump.)
Athey Products Corp., 5631 W. 65th St., Chicago 38, Ill. (Earth moving and highway construction.)
Atlas Body Corp., 4150 E. Thompson St., Philadelphia 37, Pa. (to order.)
Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log, pole and semi.)
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Beal Pipe & Tank Corp., 12005 N. Burgard St., Portland 3, Ore. (Aluminum and steel logging machinery.)
Birmingham Mfg. Co., 1101 S. 2nd Ave., (P. O. Box 1351), Birmingham, Ala. (Low bed machinery.)
Black Diamond Trailer Co., Euclid Ave., Bristol, Va.
Brown Trailers, Inc., Box 54, Spokane 10, Wash. (Aluminum, semi & van.)
Brunswick Body Wks., W. S., Route 1, New Brunswick, N. J. (Platform.)
Bunyan Co., Paul, 1602 Cove Ave., La Grande, Oreg.
C & C Trailer & Body Co., 8855 San Leandro St., Oakland 21, Calif.
Carlisle Machine Works, Box 8, Longview, Tex. (Dump, stock and pick-up.)
Cemco Industries Inc., Gallon, Ohio. (Bulb cement.)
Chadwick, Inc., Seventh St. & Keystone Ave., Darby, Pa. (Also low-bed machinery.)
Clark Co., B. M., Union, Maine.
Convento Mfg. Co., Cambridge City, Ind.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.
Copec Trailers Div., of Copco Steel & Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich. (Steel and aluminum van, flat refrigerated and dump.)



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- HOW MUCH FUEL IS TAKEN FROM EACH PUMP
- HOW MUCH FUEL IS LEFT IN YOUR TANKS

Bennett Model 789 Fleetmeter automatically keeps your gas records for you. This famed, low maintenance cost, trouble-free model makes possible the most economical method of handling fuel not intended for resale. Wherever inventory control and unit operating costs are necessary, you'll find a Bennett Fleetmeter will do the job.



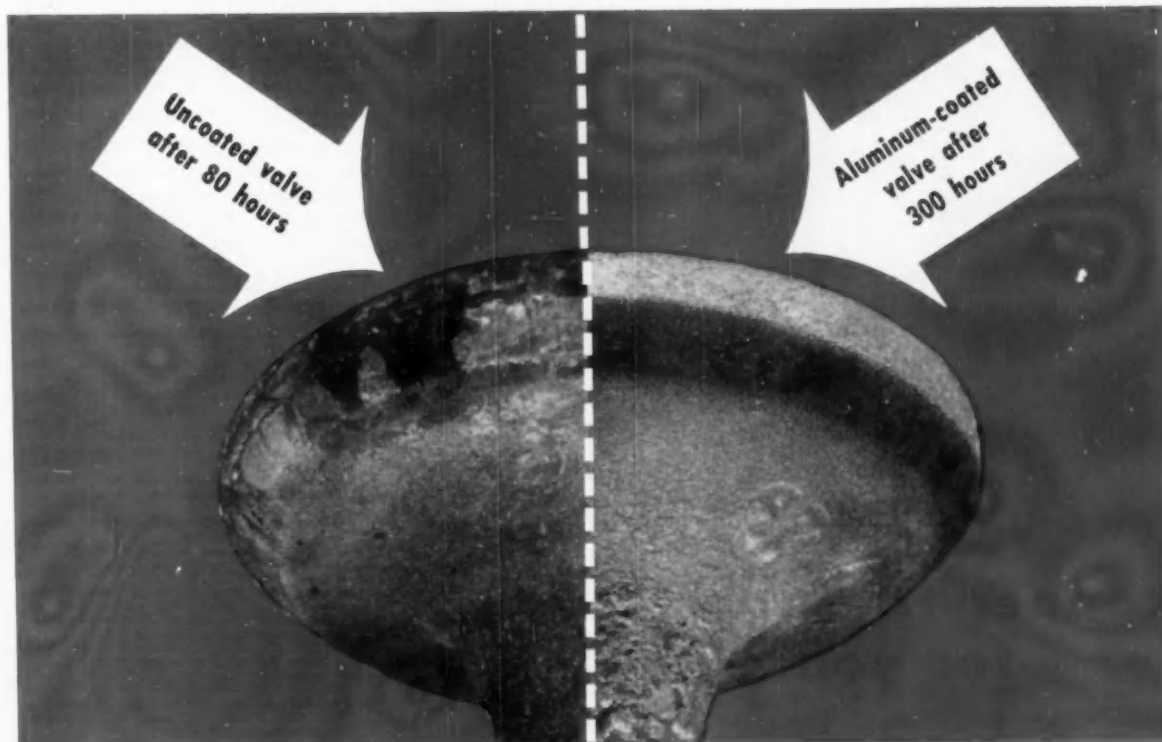
Ask your John Wood Representative about the two basic models: Model 789 automatically prints a receipt and keeps a running record of total gallons dispersed — Model 788 has a full view dial and concealed totalizer.

JOHN WOOD COMPANY

Bennett Pump Division • Muskegon, Michigan
In Canada: Toronto • Montreal • Winnipeg • Vancouver



Thompson triples valve life!



Thompson aluminum coating increases valve life **2, 3, even 4 times**

Corrosion of exhaust and intake valves by hot gases and fuel residues can be greatly reduced by the Thompson method of aluminum coating the steel. Tests show that valve life can be increased as much as 186%, and that engine performance is kept at near-original level longer.

The Thompson method of aluminum coating provides penetration of the valve steel by the aluminum for maximum corrosion protection of the valve face.

Ask your Thompson sales-engineer for the complete story and engineering data on this newest Thompson system of aluminum coating engine valves. Or write to:



Valve Division Thompson Products, Inc.

1455 EAST 185th ST. • CLEVELAND 10, OHIO

TRAILERS—continued

Corbitt Co., Div. of United Industrial Syndicate, Inc., Henderson, N. C. (Semi-van and frame.)
Cox & Sons, Leon O., Grifton, N. C. (Farm and utility.)
Cresci, A., & Sons, Vineland, N. J.
Dart Truck Co., 2623 Oak St., Kansas City 8, Mo. (Semi, 4-wheel, pole & machinery.)
Delphi Body Works, 311 S. Washington St., Delphi, Ind.
Dixie Tallyho Inc., Fairburn, Ga.
Dorsey Trailers, Inc., Elba, Ala. (Van, stake, platform, pole, machinery, etc.)
Dura-Bilt Body Co., #8 National Dock East, Boston 28, Mass.

Easton Car & Construction Co., Liberty & Holley Sts., Easton, Pa. (Off-highway for mines and quarries.)
Eidal Mfg. Co., 250 Woodward Rd. S.E., Albuquerque, N. M.
Eshelman Co., Cheston L., 109 Light St., Baltimore 2, Md. (Two-wheel.)
Evans Mfg. Co., John, 3 Miles South on Hwy. 15A, Sumter, S. C. (Flat, log, van and special pulpwood.)
F.A.R. Mfg. Co., 1249 67th St., Oakland 9, Cal. (Full, semi and log and machinery.)
Fayette Mfg. Co., Box 8, Fayette, Ohio.
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Oilfield, logging, low bed, etc.)

Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala. (Bus and low-bed machinery.)
Foster Trailer Co., 2026 Bay St., Los Angeles 21, Calif. (Tilt-bed.)
Freightliner Corp., 5400 N. Basin Ave., Portland, Ore.
Fruehauf-Carter Div. Fruehauf Trailer Co., 587 Hernando St. (P. O. Box 2086), Memphis, Tenn.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gibbs Machinery Co., 1029 Wheat St., Columbia, S. C. (Platform and pole.)
Gindy Mfg. Corp., Box Rd. & Chestnut St., Downingtown, Pa.
Gramm Trailer Corp., Lima, Ohio. (Semi cargo, bulk, transport and tank.)
Hamson Clutch & Machinery Co., Wall & Miami Sts., Tiffin 15, Ohio. (Machinery.)
Heil Co., 3090 W. Montana St., Milwaukee 1, Wis.
Hercules Galion Products, Inc., Galion, Ohio. (Dump.)
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis. (Pipe, pole, cable reel, tank, van, oil field, livestock, grain, etc.)
Hobbs Mfg. Co., 509 N. Main St., Fort Worth 1, Tex.
Hulan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio. (Pole.)
Humes Truck & Trailer Mfg. Co., 907 Franklin Ave., Steubenville, Ohio.
Ideal Mfg. Co., 1107 S. 7th St., Oskaloosa, Iowa.
Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 20, Mo.
Kingsham Trailer Co., 12th & Hill Sts., Louisville, Ky.
La Crosse Trailer Corp., P. O. Box 4, La Crosse, Wis. (Also machinery.)
Langlois Bros., 717 S. San Pedro St., Los Angeles 14, Calif.
Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)
McCabe-Powers Auto-Body Co., 5900 N. Broadway, St. Louis 15, Mo.
McKay Mfg. Co., John A., Dunn, N. C.
Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Dump.)
Martin Machine Co., South & Tenney Sts., Kewanee, Ill. Heavy duty machinery; sole distributors, Caterpillar Tractor Co., 600 W. Washington St., Peoria 8, Ill.
Mastercraft Trailers, Inc., Middlefield St., Middletown, Conn. (Two-wheel utility.)
Miami Specialties Co., 221 S. Plum St., Troy, Ohio.
Miller Trailers, Inc., 708 3rd St., Bradenton, Fla. (Dry freight refrigerated drop frame platform and bulk fruit.)
Miller & Smith Mfg. Co., 500 Phoenix Ave., N. W., Albuquerque, N. Mex.
Montgomery Body & Trailer Mfg. Co., Route 37 South, Salem, Ill.
Nabors Co., W. C., Mansfield, La.
Ohio Body Mfg. Co., New London, Ohio. (Semi.)
Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa. (Construction type bottom dump and dump livestock & grain.)
Oren Fire Apparatus Co., 1201 W. Salem Ave., Roanoke, Va. (Fire pumping units.)
Page & Page Co., 0605 S. W. Curry St., Portland 1, Ore. (Dual axle logging.)
Paul Runyan Co., 1602 Cove Ave., La Grande, Ore.
Pierce Trailer & Equipment Co., 1306 S. E. Ninth Ave., Portland 14, Ore. (Logging, lumber and machinery.)
Pike Trailer Co., 2615 So. Santa Fe Ave., Los Angeles, Calif.
Pointer-Williamette Co., P. O. Box 368, Edmonds, Wash. (Machinery and highway.)
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal. (Also logging.)
Rogers Bros. Corp., Orchard St., Albion, Pa. (Low bed heavy duty.)
Santeler Bros., 950 E. Main St., Columbus 5, Ohio.
Spenn & Co., Henry, 1995 Pitkin Ave., Brooklyn 7, N. Y.
Spencer-Safford Loadcraft, Inc., Augusta, Kan. (Semi oil field, pole, four-wheel, low-bed, etc.)
Standard Steel Works, Inc., 16th & Howell Sts., North Kansas City 16, Mo. (Tank.)
Standard Trailer Co., 415 Park St., San Leandro, Calif.



No. 75
Copper Tubing
Dispenser

Now a copper tubing dispenser for your shop!

Save space, avoid waste, eliminate broken packages and odd lengths with the new No. 75 Copper Tubing Dispenser. "Layerwound" coils unwind like thread from *steel spools* . . . straighten as they uncoil . . . without kinks . . . and the tubing is marked every foot.

saves space . . . eliminates waste

No. 75 includes 100 foot steel spools of 3/16", 1/4" and 5/16" copper tubing. Also available with 100 foot spools of any three of the following sizes: 1/8", 3/16", 1/4", 5/16", 3/8". Distributed by leading automotive wholesalers everywhere. DORMAN PRODUCTS INC., Cincinnati 2, Ohio.



(Advertisement)



Tire cost per vehicle mile averages less than 1 cent

Truck Rental, Inc.

Truck Rental, Inc., Baltimore, Md., is one of America's largest car and truck leasing firms. Its 1,011 "for hire" units require 5,136 tires on the ground and 350 spares—5,486 in all. Neglect and abuse are constant when equipment is used in rental service. That's why a tire cost of only 7/10 of 1¢ per vehicle mile is considered outstanding—even when recap mileage is included.

Leo Slunt, Supervisor of Tire Mileage (at left in photo) is shown with Ed Kaufman, Cooper sales representative, as they discuss the mileage record of a regular priced Cooper Mile-Master. Truck Rental uses Cooper replacement tires exclusively on their passenger car fleet, while over 75% of all truck tire replacements are Cooper Mile-Masters.

Shock-Guard Construction

This revolutionary Cooper development is one reason why Cooper Mile-Masters deliver such dollar-saving service for Truck Rental at *regular low prices*. Cooper Shock-Guard construction places extra layers of special cushioning rubber between the top several plies where shock and impact are greatest. Up to 1/3 stronger Cooper "Hi-T" Cord Breakers extend beyond the shoulder area, far down the sides. The result is a Cooper truck tire with more uniform strength in the life zones. Impact and shock can't concentrate because



of the Shock-Guard's wider and extra-resilient cushioning layers. The forces which cause costly bruises, breaks and blow outs in conventional tires are uniformly distributed, cushioned away and

harmlessly absorbed by Cooper Shock-Guard construction.

Larger Crown — Flatter Tread

Cooper Mile-Masters also have a larger crown radius, as compared to other major brands. This means a flatter, road-hugging Cooper tread that runs much cooler, delivers up to 45% more low-cost mileage.

Rayon and Nylon Types

The *regular low priced* Cooper Mile-Master with Shock-Guard and "Hi-T" Rayon construction will definitely cut costs on most operations. However, all-nylon types are also available for *extremely severe* service requirements. Lower tire costs are as near as your telephone. Call your Cooper truck tire dealer, or write direct for additional details. Cooper Tire and Rubber Company, Factories at Findlay, Ohio.



Over 11 million leased miles are sold from Truck Rental's Baltimore, York, Pa. and Washington offices. Baltimore office (above) is headquarters for this Cooper replacement tire user.

Cooper Tires ... miles ahead

transmissions to trucks

CCJ'S PRODUCT DIRECTORY

TRAILERS—continued

Steel Products Co., P. O. Box 1007, Savannah, Ga.
Trailer Div., Fruehauf Trailer Co., 5600 N. Broad St., Philadelphia 11, Pa.
Superior Trailer Mfg. Corp., 1125 Georgia St., Indianapolis, Ind.
Superior Trailer Works, 1480 E. Washington Blvd., Los Angeles 21, Calif.
Talbert Trailers Inc., Box 56, Lyons, Ill. (Low-bed and dump.)
Thomas & Co., Peter, 1320 Main St., Seattle 22, Mass.
Thompson Trailer Corp., Pikesville, Md.

Timple Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Trailco Mfg. & Sales Co., Mill St., Hummel's Wharf, Pa. (Semi.)
Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.
Transport Trailers Inc., 1200 12th St., S. W., Cedar Rapids, Iowa. (Dump low-bed, platform, tilt, etc.)
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC." (Four-wheel, semi and pole.)
Truck-Trailer Supply Co., 720 W. Broadway, Stafford, Kans. (Pole, grain, low-boy and oil field.)
Tyler Equipment Co., 1919 Sawyer St., Houston 10, Tex. (Horse, stock, etc.)

Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis. (Public utility.)
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Cal.
Veenema & Wiegner, Inc., 241 N. Tenth St., Paterson 2, N. J. (Aluminum.)
Vulcan Trailer Mfg. Co., 901 34th St. N., Birmingham, Ala. (Low-bed, platform and aluminum van.)
Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivers, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.) (Semi, four, six-wheel and machinery.)
Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Also logging and lo-bed.)
Whitehead & Kales Co., 55 Haltiner St., River Rouge 18, Mich.
Williamson Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah. "Wabco."
Wilson Trailer Co., 2400 Leech Ave., Sioux City 6, Iowa. (Grain, livestock, van and refrigerated.)
Winter-Weiss Co., 2201 Blake St., Denver 5, Colo. (Low bed and machinery.)
Wolf Engrg. Div. of Rich Plan Corp., 1201 Main St., Dallas, Tex.

TRANSMISSION JACKS, See Jacks, Transmission

TRANSMISSION STANDS, See Stands, Engine and Transmission Repair

TRANSMISSIONS

Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich. (Truck and bus.)
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Bus and truck.)
Detroit Transmission Div., General Motors Corp., 5140 Riopelle St., Detroit 11, Mich.
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.

TRANSMISSIONS, Automatic

Detroit Gear Div., Borg-Warner Corp., 12345 Kercheval Ave., Detroit 14, Mich.
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

TRANSMISSIONS, Auxiliary

Allison, Div. General Motors Corp., W. 10th St. at Grande Ave. (Speedway), Indianapolis 6, Ind.
Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 38, Ill.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 56, Calif.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.
Sherman Products, Inc., 3290 W. 14 Mile Rd., Royal Oak, Mich. (Tractor.)
Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Three speed axle drive power divider.)
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Overdrive unit.)
Watson Co., H. S. 1316 67th St., Emeryville, Calif.

TRUCKS, Diesel

American-Coleman Co., Littleton, Colo.
Autocar Div. of White Motor Co., Exton, Pa.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Eline Truck Co., 1116 Campbell St., Kansas City, Mo.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 56, Calif.
Corbitt Co., Henderson, N. C.
Dart Truck Co., 2623 Oak St., Kansas City 8, Mo.
Diamond T Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Duplex Div., Warner & Swasey Co., Hazel St., Lansing 4, Mich.
Euclid Road Machinery Co., 1361 Chardon Rd., Cleveland 17, Ohio. (Dump, for off-the-highway service.)
Federal Motor Truck Div., Napco Industries, 834 N. 7th St., Minneapolis 11, Minn.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.
Freightliner Corp., 5400 N. Basin Ave., Portland, Ore.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.

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①

Steel back of low carbon steel for workability, bond, strength



②

Pure copper-lead lining of sintered metal powder. Best for heavy-duty



③

Brass barrier for stability of the bearing lining material



④

Lead-tin overplate for smooth break-in



⑤

Pure tin flash plating for corrosion resistance



5 STEPS TO FLEET mileage

Fleet mileage is built into
Fm sintered copper-lead bearings!

In our pure sintered copper-lead powder—we call it our patented “mileage builder”—every tiny particle is an alloy, in controlled proportion, of copper and lead. It gives you a tough, durable, heavy-duty lining, with copper for strength, lead for “softness”, even *y* distributed and well bonded.

The brass barrier assures lining stability. The lead-tin overplate eases break-in and the final flash plating of pure tin adds corrosion resistance. These five steps mean we have built new standards of heavy-duty fleet mileage into every Federal-Mogul sintered copper-lead bearing. Your jobber has complete stocks, provides fast service!

FEDERAL-MOGUL SERVICE

Division of Federal-Mogul-Bower Bearings, Inc.

Fleet

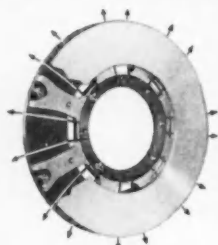
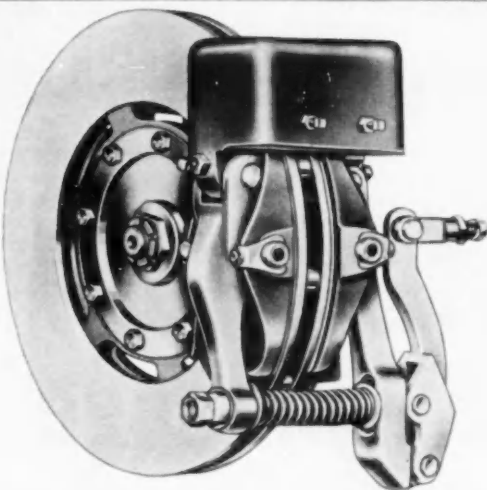


Mileage



It pays to specify Tru-Stop Brakes

ENGINEERED TO SERVE YOU BETTER—3 WAYS!



This is The Difference

One look at a TRU-STOP Brake is enough to know that it will cool itself faster than any other known type of brake.

1. Most of the disc is exposed to the air even during the braking operation.

2. The ventilated design supplies cooling air which circulates between the disc plates.

1. EMERGENCY • TRU-STOP BRAKES operate on the propeller shaft. They serve as a complete and independent braking system. They enable the driver to continue on *SAFELY*, in event of service brake failure.

2. PARKING • Interstate Commerce Commission reports consistently show that the majority of parking brake accidents are due to insufficient braking capacity. Such accidents can not happen to a vehicle equipped with TRU-STOP Brakes.

3. AUXILIARY • Most drivers occasionally use the hand brake to help the service brake. TRU-STOP Brakes have the surplus braking capacity to be used in this way—repeatedly.

Specify TRU-STOPs for factory installation on the next vehicle you buy. Send for your copy of this booklet.

ACCO



**Automotive and Aircraft Division
AMERICAN CHAIN & CABLE**

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trucks

TRUCKS—continued

Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle 8, Wash.
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J.
Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.
Parsons Co., Newton, Iowa. (For off-the-highway service.)
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Snow fighters and street flushers.)
Sterling Div. The White Motor Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker-Packard Corp., Studebaker Div., 635 S. Main St., South Bend 27, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White-Freightliner (Sole distributors, White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.)
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

TRUCKS, Fire Apparatus

American-LaFrance Corp., 100 E. LaFrance St., Elmira, N. Y. (Gasoline.)
Crowa Couch Corp., 2800 E. 12th St., Los Angeles 21, Calif.
Federal Motor Truck Co., 834 N. Seventh St., Minneapolis 11, Minn.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.
General Fire Truck Co., 2563 Little Mack St., St. Clair Shores, Mich.
Giehner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.
Hahn Motors, Inc., 409 S. Third St., Hamburg, Pa.
Howe Fire Apparatus Co., 1402 W. 22nd St., Anderson, Ind.
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J.
Maxim Motor Co., 170 Wareham St., Middleboro, Mass.
Oren Roanoke Corp., 1201 W. Salem Ave., Roanoke, Va.
Pirach & Sons Co., Peter, 1308 35th St., Kenosha, Wis.
Seagrave Corp., 2000 S. High St., Columbus, Ohio.
Universal Fire Apparatus Corp., Ft. of Wheatland Ave., Leesport, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.

TRUCKS, Gasoline

American-Coleman Co., Littleton, Colo.
Autocar Div. of White Motor Co., Lancaster Ave., Exton, Pa.
Automatic Transportation Divs., Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Brockway Motor Co., 106 Central Ave., Cortland, N. Y.
Chevrolet Motor Div. of General Motors Corp., General Motors Bldg., Detroit 2, Mich.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 65, Calif.
Corbitt Co., Henderson, N. C.
Dart Truck Co., 2623 Oak St., Kansas City 8, Mo.
Diamond T Motor Car Co., 4401 W 26th St., Chicago 23, Ill.
Diveco Corp., 22000 Hoover Rd., Detroit 5, Mich. (Frequent stop.)
Dodge Div., Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich.
Duplex Truck Co., Div. Warner & Swasey Co., Hazel St., Lansing 4, Mich.
Esco Motor Co., c/o Exhibitor's Service Co., 85 Helens St., McKees Rocks, Pa.
Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.
Federal Motor Truck Div., Napco Industries, 834 N. 7th St., Minneapolis 11, Minn.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.

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COMMERCIAL TRUCK BODIES



***A fleet of newly designed
combination tier and pallet bodies
for Canada Dry Gingerale, Inc.***

SPECIALISTS IN CUSTOM BUILT TRUCK BODIES

Your investment in York-Hoover Commercial Truck Bodies pays off in longer, better, cost-saving service for you. First, because they're built for your specific transportation job. Second, because they're backed by York-Hoover . . . a famous name in the Transportation Industry since 1892. *Contact us for solutions to your truck body problems.*

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YORK-HOOVER CORPORATION
YORK, PENNSYLVANIA**

***built in
FEATURES***



- **LIGHTWEIGHT CONSTRUCTION**
Combination high tensile steel and aluminum
- **FUNCTIONAL CAPACITY**
Especially for split loads
- **LARGE ROOF AREA**
Provides additional carrying capacity

64 YEARS OF SERVICE TO THE TRANSPORTATION INDUSTRY

TRUCKS—continued

GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 8, Wash.

Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y. (Frequent stop; also custom coaches, for medical, X-ray, dental and television; also business display.)
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J.
Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Four wheel drive.)
Milford Crane & Machine Co., 841 63rd St., Brooklyn 20, N. Y. (4-axle crane truck and special purpose.)
Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.

Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Pontiac Motor Div. General Motors Corp., Pontiac 11, Mich.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Snow fighters and street flushers.)
Sterling Div., The White Motor Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker-Packard Corp., Studebaker Div., 635 S. Main St., South Bend 27, Ind.
Truckstall Mfg. Co., 1435 Union Commerce Bldg., Cleveland 14, Ohio. (Dual axle drive conversions.)
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
Willys Motors, Inc., Kaiser Motors Corp., 940 N. Cove Blvd., Toledo 1, Ohio. (Also jeeps and station wagons.)



Refrigerator Bodies for You!

Hackney refrigerator bodies always meet your needs and stay ahead of the parade, because "we're working with you." Hackney's factory representatives are at your beck and call. They keep their fingers on the pulse of your industry. Behind them is a staff of specialists interpreting your needs through development and production of better refrigerator bodies. Over a century of know-how is backed by a plant as modern as tomorrow, equipped to turn out the miracles of today. One Hackney refrigerator body in your fleet will prove its superiority. Let us give you all the facts.

Hackney
SINCE 1854

Hackney Bros. Body Co.
Wilson, N. C. Phone 7-0105

Builders of Better Bodies Since 1854

TRUCKS, Hand

Aerol Co., 2424 San Fernando Rd., Los Angeles 65, Calif.
American Pulley Co., 4200 Wissahickon Ave., Philadelphia 29, Pa.
Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Armstrong Truck & Caster Div. of North Wales Foundry Co., North Wales, Pa.
Automatic Transportation, Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill. (Motorized.)
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Bishman Mfg. Co., Osseo, Minn. (Battery.)
Bond Co., Charles, 517 Arch St., Philadelphia 6, Pa.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Buschman Co., E. W., Spring Grove & Clifton Aves., Cincinnati 32, Ohio.
Cam Tool Co., 288 22nd St., Oakland 12, Calif.
Clark Co., Geo. P., 35 Canal St., Windsor Locks, Conn.
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
Clinton Products Co., 701 Tecumseh Rd., Clinton, Mich.
Colon Co., Leroy L., 5840 W. Kilborn Ave., Chicago 30, Ill.
Colson Corp., Elyria, Ohio.
Continental-Diamond Fibre Div., Budd Co., Newark 10, Del. (Fibre.)
Durlach Can & Iron Works, 174 Seventh St., Brooklyn 16, N. Y.
Electric Wheel Co., Quincy, Ill.
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.
Fairbanks Co., 393 Lafayette St., New York 8, N. Y.
French & Hecht Div., Kelsey-Hayes Co., 3rd & Farnam Sts., Davenport, Iowa.
Hamilton Caster & Mfg. Co., 1517 Dixie Highway, Hamilton, Ohio.
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
Howe Scale Co., 3 Scale Ave., Rutland, Vt. (Platform.)
Illinois Iron & Bolt Co., 10 Main St., Carpentersville, Ill.
International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
Kirk & Blum Mfg. Co., 5120 Forrer St., Cincinnati 9, Ohio.
Koehring Co., 3024 W. Concordia Ave., Milwaukee 10, Wis.
Lansing Co., 603 N. Cedar St., Lansing 1, Mich.
Leehaw Mfg. Co., 65 Wayne Ave., Youngstown 2, Ohio.
Lewis Co., G. B., 426 Montgomery St., Watertown, Wis.
Lewis-Shepard Products, Inc., 125 Walnut St., Watertown, Mass.
Magline, Inc., 952 Murray Rd., Pinconning, Mich.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich. (Folding.)
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
Rapid-Standard Co., 100 Rapistan Bldg., Grand Rapids 2, Mich.
Rolack Inc., 1350 Kings Highway, Fairfield, Conn.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.

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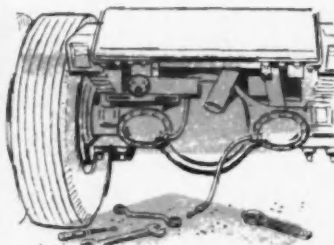
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TRUCKS—continued

Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio.
 Sage Equipment Co., 30 Essex St., Buffalo 13, N. Y.
 Saginaw Products Corp., 68 Williamson St., Saginaw, Mich.
 Skarnes Engrg. & Supply, Inc., 290 E. Franklin Ave., Minneapolis 6, Minn.
 Standard Pressed Steel Co., Jenkintown, Pa.
 Thomas Truck & Coaster Co., 1021 Mississippi River, Keokuk, Iowa.

Towmotor Corp., 1226 E. 152 St., Cleveland 10, Ohio.
 Walker Vehicle & Automatic Transportation Divs., Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill. (Motorized.)
 Wellington Machine Co., 133 DeWolf St., Wellington, Ohio. (Hydraulic)
 West Bend Equipment Corp., 216 S. Water St., West Bend, Wis.
 Western Gear Corp., 2600 E. Imperial Highway, Lynwood, Calif.
 Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

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Brass Fittings • Flexible Lines • Shut-off Valves • Tubing Tools • Drum Faucets • Service Aids

TRUCKS, Lift, Diesel

Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.
 Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
 Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
 Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

TRUCKS, Lift, Electric

Atlas Car & Mfg. Co., 1130 Ivanhoe Rd., Cleveland, Ohio.
 Automatic Transportation Co., Divs. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.
 Baker-Raulang Co., 1250 80th St., Cleveland 2, Ohio. (Electric or gas-electric.)
 Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
 Big Joe Mfg. Co., 900 W. Jackson Blvd., Chicago 7, Ill.
 Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
 Crescent Truck Co., Div. of Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
 Cushman Motor Works Inc., 920 N. 21st St., Lincoln, Neb.
 Easton Car & Construction Co., Liberty & Holly Sts., Easton, Pa.
 Economy Engrg. Co., 4511 W. Lake St., Chicago 24, Ill.
 Elwell-Parker Electric Co., 4205 St. Clair Ave., Cleveland 3, Ohio. (Also gas-electric.)
 Lewis-Shepard Products, Inc., 125 Walnut St., Watertown, Mass.
 Market Forge Co., 25 Garvey St., Everett, Mass.
 Mercury Mfg. Co., 4044 S. Halstead St., Chicago 9, Ill.
 Moto-True Co., 1953 E. 59th St., Cleveland, Ohio.
 Raymond Corp., 151 Madison St., Greene, N. Y.
 Revolver Co., 11 S. Route 1 at 86th St., North Bergen, N. J.
 Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

TRUCKS, Lift, Gasoline


Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.
 American Tractor Corp., Churubusco, Ind.
 Automatic Transportation Co., Divs. of Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.
 Baker-Raulang Co., 1250 W. 80th St., Cleveland 2, Ohio. (Also gas-electric.)
 Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
 Cushman Motor Works Inc., 920 N. 21st St., Lincoln, Neb.
 Erickson Power Lift Trucks Inc., St. Anthony Blvd. & University Ave., N. E., Minneapolis 18, Minn.
 Gerlinger Carrier Co., Lyle & Birch Sts., Dallas, Ore.
 "H H" Mfrs., 2224 Cerritos Ave., Long Beach 6, Calif.
 Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
 Hyster Co., 2909 N. E. Clackamas St., Portland 8, Ore.
 Kwik-Mix Co., 235 W. Grand Ave., Port Washington, Wis.
 Lamson Mobilift Corp., 835 S. E. Main St., Portland 14, Ore.
 Lewis-Shepard Products, Inc., 125 Walnut St., Watertown, Mass. (Gas Electric.)
 Market Forge Co., 25 Garvey St., Everett, Mass. (Gas, electric.)
 Peterbilt Motors, Inc., 107th St. & MacArthur Blvd., Oakland 7, Calif.
 Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
 Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
 Transittier Truck Co., 2477 N. W. 23rd Ave., Portland 10, Ore.
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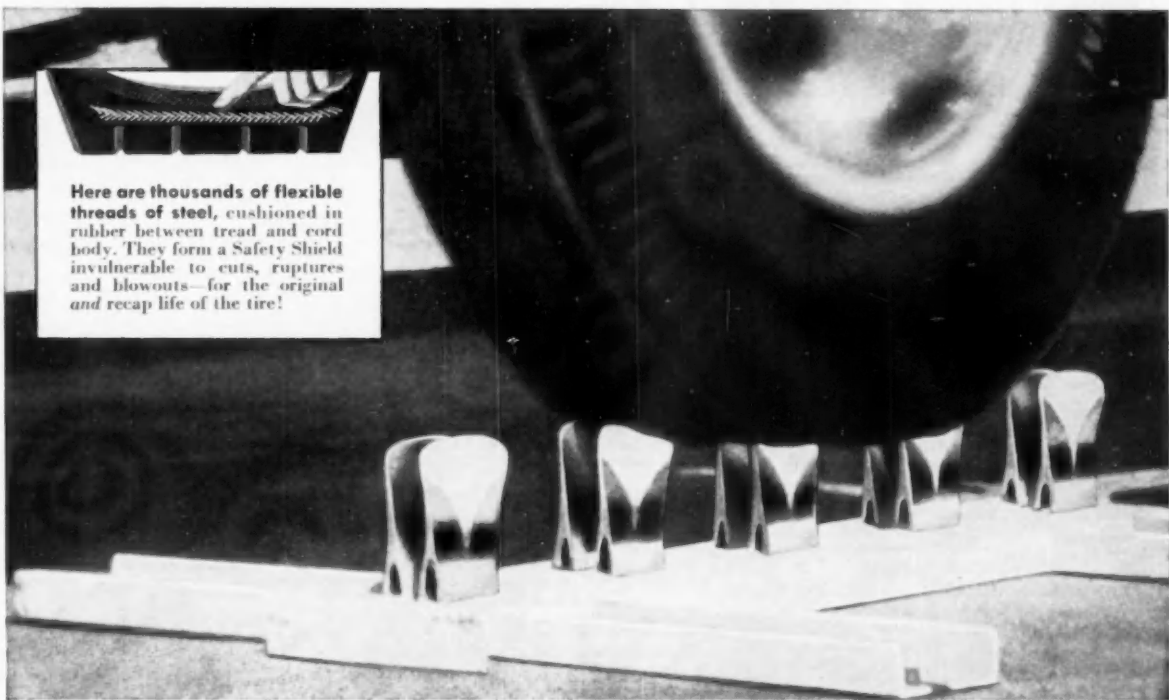
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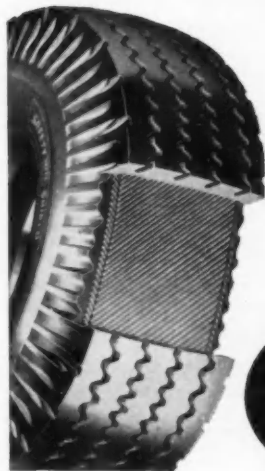
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With the strength of steel, this new U.S. Royal combines full flexibility, light weight and soft ride—without increased inflation. Its carcass, shielded by steel cords, remains undamaged for more safe recaps, making it the most economical of truck tires.

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78



Model
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Models
F-155
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272-C
363-C



Models
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MODELS 78, 135-S, 200-S, featuring single-bolt lid, screw-in type pack, and overall compact design for use where space is limited. These Models provide the ultimate in filtration for passenger cars, small trucks and tractors, and other similar engines up to 5-quart, 6-quart, and 7-quart crankcase capacities.

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MODELS 500-C and 750-C, featuring the Luber-finer single-bolt lid clamp O-Ring lid gasket, large-capacity packs, and extra rugged construction to withstand the most severe service. Designed for use on gas, gasoline or diesel engines up to 5-gallon and 8-gallon crankcase capacities. Also

widely used on fuel lines, hydraulic oil systems, and many other industrial applications.

MODELS 750-2C & 750-3C, featuring the Luber-finer single-bolt lid clamp, O-Ring lid gasket, and multiple packs for extra large capacity. Available with either wall or floor mounts for industrial use on engines up to 35-gallon sump, fuel lines up to 15 GPM, hydraulic oil systems up to 450 gals. For larger capacities, two or more Units can be connected in parallel.

MODELS F-120 and F-155, for gasoline and diesel fuel lines on mobile, stationary, or marine applications. Extremely efficient in removing impurities and contaminants from fuel. Single Units will handle flow rates from 0.5 to 1.0 GPM on suction or gravity flow. For larger capacities, connect two or more Units in parallel, or install on pressure-side of fuel pump.

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TRUCK TANKS, See Tanks, Trailer and Truck Body

TUBE FITTINGS

Aerquip Corp., 300 S. East Ave., Jackson, Mich. (Self sealing couplings.)

Aircraft Fitting Co., 1400 E. 30th St., Cleveland 14, Ohio.

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.

Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.

Resistoflex Corp., Belleville 9, New Jersey.

Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.

Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

TUBES, Inner

Armstrong-Norwalk Rubber Corp., Glover Ave., Norwalk, Conn.

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.

Carlisle Tire & Rubber Div., Carlisle Corp., 621 N. College St., Carlisle, Pa.

Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.

Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.

Dayton Rubber Co., 2342 Riverview Ave., Dayton 1, Ohio.

Denman Rubber Mfg. Co., Warren, Ohio.

Dismuke Tire & Rubber Co., P. O. Box 308, Clarksdale, Miss.

Dunlop Tire & Rubber Corp., Sheridan Dr. & River Rd., Buffalo 5, N. Y.

Durkee-Atwood Co., 215 Seventh St., N. E. Minneapolis 13, Minn.

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.

Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.

General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.

Goodrich Co., Tire & Equipment Div., B. F. 500 S. Main St., Akron, Ohio.

Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.

Inland Rubber Corp., 515 Newman St., Mansfield, Ohio.

Kelly-Springfield Tire Co., Cumberland, Md.

Lahee Tire & Rubber Co. of Calif., 26th & Magnolia Sts., Oakland, Calif.

Lee Rubber & Tire Corp., Conshohocken, Pa.

McCreary Tire & Rubber Co., Box 700, Indiana, Pa.

Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.

Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.

Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.

Polson Rubber Co., Garrettsville, Ohio.

Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.

Robbins Tire & Rubber Co., Tusculumbia, Ala.

Schenuit Rubber Co., Frank G., Railroad and Union Aves., Baltimore 11, Md.

Seiberling Rubber Co., Akron 9, Ohio.

United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y.

TUBING, Brass and Copper

American Brass Co., French Small Tube Div., 128 Robbins St., Waterbury 20, Conn.

Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.

Chase Brass and Copper Co., 236 Grand St., Waterbury 20, Conn.

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.

Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Copper.)

Excelsior Accessories Mfg., Inc., 81 Madison Ave., Hempstead, N. Y.

Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. (Copper.)

Kensico Tube Co., Hubbell's Cross Rd., Mt. Kisco, N. Y. (Copper.)

Lewin-Mathes Co., 12th St. & Chouteau Ave., St. Louis, Mo. (Copper.)

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**FOR ENGINE PERFORMANCE
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Experience proves dependability — and the experience records of fleet owners, everywhere, are the basis of Zollner Piston popularity. Today, as for many years, Zollner Pistons are the dominant choice of most engine builders and most fleet operators. For replacement as well as original equipment, Zollner Pistons are specifically tailored to individual engine requirements. You can always be sure of highest engine performance and lowest maintenance cost when you specify Zollner for every piston job.



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Linderne Tube Co., 1500 E. 219th St., Cleveland 17, Ohio. (Copper.)
 Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.
 National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
 Penn Brass & Copper Co., 3827 W. 20th St., Erie, Pa.
 Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y. (Copper.)
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
 Revere Copper and Brass Inc., 230 Park Ave., New York 17, N. Y.

Roll Formed Products Co., 2765 Oakwood Ave., Youngstown, Ohio.

Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn. (Brass.)

United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.

Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.

Wells & Co., A. H., 177 E. Aurora St., Waterbury, Conn.

Wolverine Tube Div. of Calumet & Hecla, Inc., Guardian Towers, Detroit 26, Mich.

TUBING, Flexible Metallic

Alexander Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa.
 American Brass Co., American Metal Hose Div., 698 S. Main St., Waterbury 20, Conn.
 Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
 Co-Operative Industries, Inc., 100 Oakdale Rd., Chester, N. J.
 D'Nomart Inc., 100 Maple St., Ashburnham, Mass.
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
 Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y.
 Etteco Ware & Cable Co., 75 Onderdonk Ave.
 Flexico Products Inc., Middlesex Ave. & Factory St., Metuchen, N. J.
 Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.
 Forsyth Metal Goods Co., Elm St., East Aurora, N. Y.
 Gabriel Co., 1523 E. 45th St., Cleveland 8, Ohio.
 Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
 National Electric Products Corp., 2 Gateway Center, Pittsburgh 22, Pa.
 Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.
 Revere Copper & Brass Inc., 230 Park Ave., New York 17, N. Y.
 Ryder Mfg. Co., 229 N. Ada St., Chicago 7, Ill.
 Titeflex, Inc., 500 Frelinghuysen Ave., Newark 5, N. J.
 Universal Metal Hose Co., 2133 S. Kedzie Ave., Chicago 23, Ill.



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New Piggy-Back Model Spotting 5th Wheel With Latest Added Improvements
 New long forks to make easy pick-up alignment and over-ride
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Weights 1150 lbs. — upper fifth wheel so reinforced to double life expectancy — especially where rough treatment is common. Hand grease gun furnished.

14" & 24" Lifting Heights

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TUBING, Loom

Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill. (Asbestos.)
 Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.
 Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind.
 Warflex Corp., 512 W. Court St., Roma, N. Y.
 Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.

TUBING, Oil and Gasoline Line

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Flexible.)
 Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
 American Brass Co., American Metal Hose Div., 698 S. Main St., Waterbury 20, Conn. (Flexible, with fittings.)
 Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill. (Flexible.)
 Andrews Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
 Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. (Flexible.)
 Avon Tube Div. of Higbie Mfg. Co., Charles St., Rochester, Mich.
 Bundy Tubing Co., 8109 Jefferson Ave., Detroit 14, Mich. (Solid.)
 Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
 Coronet Parts Mfg. Co., 883 Elton Ave., Brooklyn 8, N. Y. (Flexible and solid.)
 Danielson Mfg. Co., Danielson, Conn. (Nylon.)
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
 Edelmann & Co., E., 2232 Logan Blvd., Chicago 47, Ill. (Flexible.)
 Everhot Products Co., 2901 W. Carroll Ave., Chicago 12, Ill. (Flexible.)
 Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Flexible.)
 Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. (Flexible.)
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
 Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill. (Flexible.)
 Look & Co. R. J., 343 N. Gay St., Baltimore, Md.
 Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. (Flexible non-metallic, with fittings.)
 National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Flexible.)
 Penn Brass & Copper Co., 3827 W. 20th St., Erie, Pa. (Solid.)
 Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.

J-M Brake Blocks are standard equipment on the *Greyhound Scenicruiser*



Greyhound's Scenicruiser represents the ultimate in engineering achievement in the automotive field. The safest bus ever built, it relies on Johns-Manville asbestos brake lining for safe, reliable stops.

Johns-Manville Brake Blocks

**give top performance at lowest cost
per mile on any heavy duty vehicle**

WHETHER you operate buses or a fleet of heavy duty trucks, Johns-Manville Brake Blocks will give you lower brake cost per mile, smoother stops, minimum shop and out-of-service time. You'll get dependability, too, under all driving conditions.

Johns-Manville Brake Blocks are supplied in individual units, or combination sets of high, medium or low frictional characteristics. Regardless of the type of brake, or service conditions under which it must operate, there is a J-M Brake Block custom-engineered for the specific job it has to do.

For further information about Johns-Manville Brake Blocks,
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Johns-Manville, Box 14, New York 16, N. Y.



Johns-Manville *asbestos* **BRAKE LININGS**

In place of wasteful and uncertain crankcase-oil changing based upon mileage or hours in service, many fleet operators now use a better guide that saves them both time and money.

Now you can test used oil in minutes

IT HAS COME as something of a surprise to some maintenance men to discover that they have been throwing away hundreds of gallons of still-good oil . . . year after year. Conversely, it is quite a jolt to realize that a costly engine-repair job could have been prevented by an on-the-spot analysis that would have shown up the condition . . . in minutes!

The recommendations for oil changes issued by engine makers have always been computed on "averages" for the various classes of vehicle service. And like the "average" man on the insurance chart, the average vehicle doesn't exist in the actual fleet. Two trucks or buses of the same make and model, operating on the same job, can have quite different patterns of oil economy and engine condition. Obviously no one set of rules can apply ideally to all units of a fleet. And fortunately there is no longer any need for such generalization.

From a couple of drops of used oil, the Shell "ADC* Oilprint Analysis" provides a reliable check of oil condition, in minutes. It is very simple, and with a

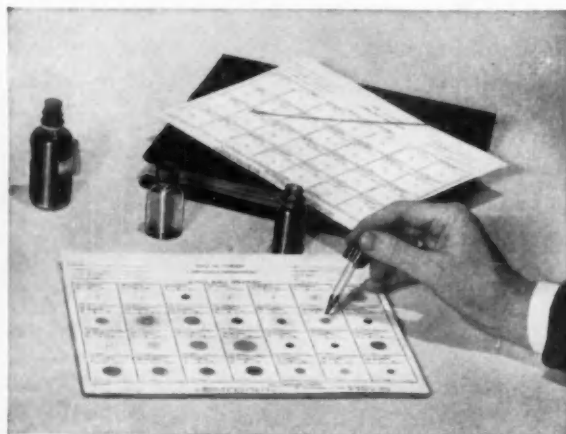
little practice, it tells you a lot about that oil and the engine that uses it.

What a drop of used oil shows: You place a drop of used oil on a piece of special filter paper supplied by Shell . . . let it stand a minute or two. You will then be able to see the following:

Water dilution: Even a tiny amount of 'water shows up . . . and that means not only that your oil is losing its ability to protect engine parts, but it also shows whether the water represents a normal amount of condensation or something more serious, such as an actual leakage of coolant from a faulty jacket.

Dispersancy/detergency: The same oil drop will give you a picture of how well the special additives in the oil are doing their job . . . whether or not the contaminants are being held in suspension where they do least harm . . . whether the cleansing and dispersing actions are adequate . . . whether the oil is still good.

Adulteration: The color of the oil spot will show whether too much contamination is occurring . . . and will very often point up the cause, indicating a check on



The simple test setup: sample bottles, a wire rod, a bottle of "indicator," and the permanent record card.



This single, on-the-spot sample reveals many things about an engine.



A fleet superintendent sees how easily the test is made.

injectors, nozzles, oil and air filters of diesels, or on plugs, carburetors and filters of gasoline engines.

All of the above can be learned from the single drop of oil . . . in an amazingly short time.

Alkalinity: Engine wear and engine deposits increase as the oil becomes acidic in nature due to contamination from combustion products. A special indicating fluid, developed in Shell Laboratories, tells at a glance whether oil is alkaline and still usable, or acid and how much.

Operators who keep an ADC Oilprint Analysis record of each vehicle generally find that the crankcase oil stands up longer than they had figured . . . a distinct saving in lubrication cost. At the same time, there is a running check on each engine that often detects impending trouble before its correction becomes costly. In this respect, the Shell ADC Oilprint Analysis qualifies definitely as one of the valuable recent tools of preventive maintenance.

If you are concerned with extending the service of crankcase oil, and with avoiding the risk of using oils loaded with contaminants, we suggest that you have one of the Shell service engineers demonstrate ADC Oilprint Analysis for you.

*Trademark



Photo shows an oil-spot test card...one phase in the visual life record of a charge of oil.

The Shell "indicator" shows acidity instantly. If spot turns red, oil is no longer fit to use, should be changed quickly.



SHELL OIL COMPANY

50 WEST 50th STREET, NEW YORK 20, NEW YORK
100 BUSH STREET, SAN FRANCISCO 6, CALIFORNIA



tubing to undercutters

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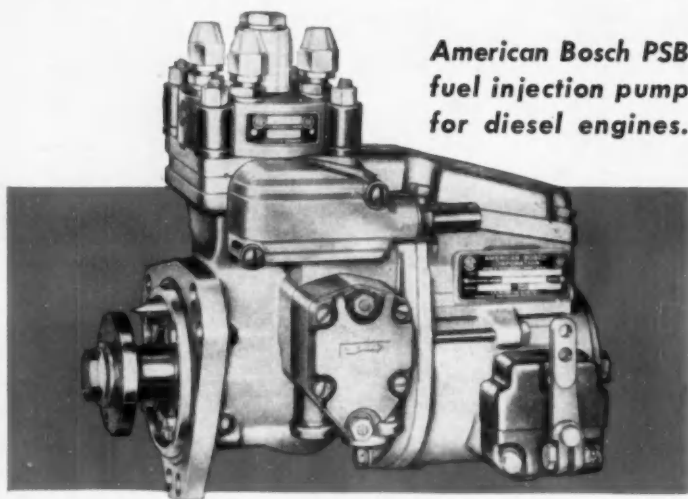
TUBING—continued

Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y. (Flexible.)
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.
Quaker Rubber Co., Tacony & Comly Sts., Philadelphia 24, Pa.
Resistoflex Corp., Woodland Rd., Roseland, N. J. (Flexible, with fittings.)
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Titeflex, Inc., 500 Frelinghuysen Ave., Newark 5, N. J. (All-metal flexible.)
United Wire & Supply Co., 1497 Elmwood Ave., Providence 7, R. I.

Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind. (Flexible non-metallic.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wolverine Tube Div. of Calumet & Hecla, Inc., 1850 Guardian Towers, Detroit 26, Mich.

TUBING, Windshield Wiper

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Bowling Green Rubber Co., 4143 Monroe St., Toledo 13, Ohio.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.



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for diesel engines.**

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Continental Rubber Works, 1902 Liberty St., Erie, Pa.
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Dallas Mfg. & Sales Co., Box 7181 Dallas, Tex.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron 18, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Kravex Mfg. Corp., 273 Van Sinderen Ave., Brooklyn 7, N. Y.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford 2, Conn.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.
Victor Instrument Mfg. Co., 53 W. 60th St., New York 23, N. Y.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
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TUNE-UP OIL, See Oils, Upper Cylinder

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Battenfield Grease & Oil Corp., 3148 Rosnake Rd., Kansas City 8, Mo. (Underbody.)
Borunki, Jr., Ernest F., 162 W. 54th St., New York 19, N. Y.
Carey Mfg. Co., Philip, Lockland, Cincinnati, Ohio. (Underbody.)
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Flintkote Co., 39 Rockefeller Plaza, New York 20, N. Y.
Gibson-Homans Co., 2366 Woodhill Rd., Cleveland, Ohio.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Hutson Div. of Gibson-Homans Co., Railroad & Institute Sts., Conners, Ga. (Underbody.)
Insul-Mastic Corp. of America, 7750 W. 61st Place, Summit, Ill. (Mastic.)
Keystone Asphalt Products Co., 101 E. Ontario St., Chicago 11, Ill.
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark.
Moore & Co., Samuel, Mantua, Ohio.
Mortell Co., J. W., 559 N. Hobbie Ave., Kankakee, Ill. "Insulmat."
Nox-Rust Chemical Co., 2429 S. Halsted St., Chicago 8, Ill.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.
Pioneer Chemical & Mfg. Co., 1826 Columbus Rd., Cleveland 13, Ohio. (Underbody.)
Pioneer Latex & Chemical Co., Lincoln Blvd., Middlesex, N. J.
Prestite-Keystone Engrg. Products Co., 3906 Chantau St., St. Louis 10, Mo.
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich.
Steelcote Mfg. Co., 2418 Gratiot Ave., St. Louis 3, Mo.
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.
Silvercote Products, Inc., 161 E. Erie St., Chicago 11, Ill.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo. (Underbody.)
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Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill.

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International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.

Lanagan & Hoke, Easton Rd., Warrington, Pa.

Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.

Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.

Red Devil Tools, Colt St., Irvington 11, N. J.

Rite Tool, Inc., 31 N. Seventh St., Fall River, Mass.

Weidenhoff, Inc., Joseph, Algona, Iowa. (Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.)

Wood Co., Frank N., 344 W. Main St., Waukesha, Wis.

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UNIVERSAL JOINTS

(See also Shafts, Propeller)

Accurate Products, 720 E. Washington St., Indianapolis 2, Ind.



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Bashian & Sons Co., Henry, 40391 Grand River Ave., Farmington, Mich.

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.

Blood Brothers Machine Co., Div. Rockwell Spring & Axle Co., Allegan, Mich.

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.

Cleveland Steel Products Corp., 7306 Madison Ave., Cleveland 2, Ohio.

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.

Detroit Bevel Gear Co., 8130 Jos. Campeau Ave., Detroit 11, Mich.

Detroit Harvester Co., Paris Products Div., Paris, Ky.

Detroit Universal Div., Chrysler Corp., 6455 Kingsley Ave., Dearborn, Mich.

Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich.

Gray & Prior Machine Co., 614 Windsor St., Hartford, Conn. (For power take-off application.)

Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors, Lempeo Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)

Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.

M. D. Parts Mfg., 4395 E. Olympic Blvd., Los Angeles, Calif.

Mechanics Universal Joint Div., Borg-Warner Corp., 2030 Harrison Ave., Rockford, Ill.

Merit Products Co., 121 W. Florence St., Los Angeles 3, Calif.

Morse Chain Co., Ithaca, N. Y.

Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.

Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind.

Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.

New Process Gear Co., 500 Plum St., Syracuse, N. Y.

Parts Mfg. Co., 311 W. 66th St., N. Y. 23, N. Y.

Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.

Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.

Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.

Root Co., B. M., Prospect & Sherman Sts., York, Pa.

Rowland, Inc., William & Harvey, 1414 Fairmount Ave., Philadelphia 30, Pa.

Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.

Standard Steel Spring Co., Coraopolis, Pa.

Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.

Stow Mfg. Co., 445 State St., Binghamton, N. Y.

Western Automotive Co., 121 E. 21st St., Chicago 16, Ill.

Williams Engineering Corp., 224 Park Ave., Baltimore, Md.

UPPER CYLINDER LUBRICANTS, See Oil.

VALVE CLEANING TOOLS, See Tools, Valve

Upper Cylinder

Guide Cleaning

VALVE GRINDING COMPOUND, See Compounds, Valve Grinding

VALVE GRINDING HAND, See Tools, Valve Grinding and Lapping

VALVE GUIDES, See Guides, Valve

VALVE GUIDE INSTALLING AND REMOVING TOOLS, See Tools, Valve Guide Installing and Removing

VALVE REFACERS, See Refacers, Valve

VALVE SEAT GRINDERS, See Grinders, Valve Seat

VALVE SEAT INSERT, See Seats, Valve

VALVE SEAT INSTALLING, See Tools, Valve Seat Installing

VALVE SPRING TESTERS, See Testers, Valve and Clutch Spring

VALVE TOOLS, See Tools, Valve

VALVES, Air Brake

Aircraft Products Div. Manning Maxwell & Moores, Shelter Rock Lane, Danbury, Conn.

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.

Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill. (Breakaway.)

George Mfg. Co., 10 Harvey St., Philadelphia 44, Pa. (Automatic.)

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NEW INDEPENDENT MOUNTING FOR FOG SHIELD

NEW PREFORMED LEAD-IN WIRES

NEW CERAMIC "SHOCK ABSORBER"

Withstands vibration and shock, major causes of premature burnouts in trucks used in rough service

A new General Electric *All-Weather* Headlamp, the 12-volt 5440, stands up in rough-service trucking. Here's why:

1. CERAMIC SHOCK ABSORBER holds the lead-in wires firmly in position, and subdues vibration. If any vibration remains, all four wires move together, so filaments cannot be distorted.

2. FILAMENT SHIELD MOUNTING is independent of lead-in wires. It is stronger and more accurate. Shield vibration is isolated from filament supports.

3. LEAD-IN WIRES ARE PRE-FORMED to eliminate "spring" action. This minimizes possibility of filaments being torn loose or pulled out of focus.

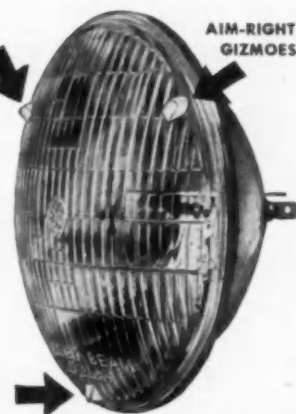
4. AIM-RIGHT GIZMOES. Road shock and vibration jar headlamps out of alignment. Aim-right Gizmoes, 3 glass pads molded into the lenses, make aiming easy, accurate . . . day or night.

SAFER IN FOG AND CLEAR WEATHER.

A built-in lower beam filament shield prevents blinding kick-back glare, and helps drivers see *through* fog, rain and snow. The upper beam is unshielded to permit maximum light on the road in clear weather. And a new low beam pattern extends seeing distance along the right side of the road by as much as 80 feet in clear weather—a big help in seeing against oncoming headlamps.

The G-E 5440 headlamp, with Aim-right Gizmoes, costs only slightly more than other G-E *All-Weather* Headlamps.

Give your drivers safer seeing for night driving. Replace present headlamps with G-E *All-Weather* Headlamps *now*.



Miniature Lamp Department,
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GENERAL  ELECTRIC

valves

CCJ'S PRODUCT DIRECTORY

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Sweetland Corp., 940 N. Fair Oaks Ave., Pasadena, Calif. (For trucks, trailers, and buses.)
Talco Engrg. Co., 2685 State St., Hamden, Conn. (Breakaway.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

VALVES, Air Tank Drain

George Mfg. Co., 10 Harvey St., Philadelphia 44, Pa.
Hamilton Co., L. L., 23 N. W. 10th St., Oklahoma City, Okla.
Master Equipment Corp., P. O. Box 55, Dayton 1, Ohio. (Automatic.)
Monroe Standard, Inc., P. O. Box 366, Galion, Ohio.
National Pneumatic Co., 125 Amory St., Boston 19, Mass.
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill.
Quincy Compressor Co., 217 Maine St., Quincy, Ill.

Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Westinghouse Air Brake Co., Industrial Products Div., P. O. Box 36, Wilmerding, Pa.
Wilkerson Corp., 1601 W. Girard Ave., Englewood, Colo.

VALVES, Electromagnetic

(For fuel shutoff, oil shutoff and hydraulic control)
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VALVES, Engine Poppet

Allied Motor Parts Co., Detroit 1, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
American Hammered Automotive Replacement Div. of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.
Andrews Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Eaton Mfg. Co., Valve Div., Battle Creek, Mich.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Products Corp., Div. Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
Parts Processing Corp., 1499 E. Michigan Ave., Battle Creek, Mich. (For trucks and buses.)
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Remco Products Corp., State & Hay Sts., York, Pa.
Rich Mfg. Co., 96 N. Division St., Battle Creek, Mich.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 6402 Cedar Rd., Cleveland 3, Ohio.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wolverine Gear & Parts Co., Osseo, Mich.

VALVES, Gasoline Tank

Anderson Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.
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Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.
General Controls, 801 Allen St., Glendale, Calif.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

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Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Norgren Co., C. A., 3400 S. Elati St., Englewood, Calif.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
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VALVE TAPPETS, See Tappets, Valve

VALVES, Two-Way, Three-Way and Four-Way, Air

Allen Co., A. K., 57 Messerole Ave., Brooklyn 22, N. Y.
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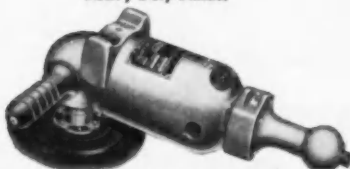
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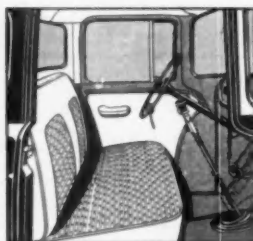
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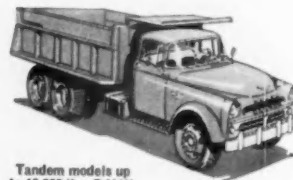
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Exclusive!—Can be raised full 90° for easiest, fastest engine servicing, half-way for routine oil and water checks.



Tandem models up to 46,000 lbs. G.V.W.

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- NEW giant-power V-8 engines!
- NEW higher load capacities!
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- NEW Forward Look styling!

Get set to profit from a great *new* kind of truck—with *more* V-8 power and *more* payload capacity—with *more* eager-to-go snap than any other make on the road!

From 204-hp. pick-ups to 232-hp. tandems, today's new low-priced V-8 Dodge *Power Giants* deliver more truck per dollar—and more profitable payloads—in *every* weight class, 4,250 lbs. G.V.W. to 65,000 lbs. G.C.W.

New short-stroke Chrysler-engineered V-8's—with exclusive Power-Dome combustion—give you more miles per gallon, full power on *regular* gas. Increased power in famous, dependable Dodge 6's, too.

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^{*}Available on low-tonnage and forward-control models.

DODGE TRUCKS

WITH THE FORWARD LOOK



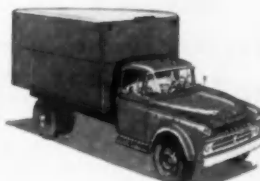
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Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio.
The Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
Keller Tool Div., Gardner Denver Co., 1338 Fulton St., Grand Haven, Mich.
Logansport Machine Co., Center Ave., Logansport, Ind.

Ross Operating Valve Co., 120 E. Golden Gate Ave., Detroit 3, Mich.
S-P Mfg. Corp., 30201 Aurora Rd., Solon, Ohio. (Four-way.)
Skinner Electric Valve Div. Skinner Chuck Co., Edgewood Ave., New Britain, Conn. (Cut off for L.P. gas fuel systems.)
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

VALVES, Tire

(See also Caps, Tire Valve)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Cores only.)
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Druge Bros. Mfg. Co., 888-92nd Ave., Oakland 3, Calif. (Sole distributors Tru-Flate Inc., 888-92nd Ave., Oakland 3, Calif.)
Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.
Planet Corp., 964 Dean St., Brooklyn 38, N. Y.
Rite-Way Products Co., 39 W. E. H. Crump Blvd., Memphis 2, Tenn.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.



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GENUINE
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PARTS!**



You can be proud of every repair job when you use only genuine parts. When it comes to servicing Bendix® Drives, be sure to use only *factory new* Bendix Drives and Parts. This means your customers will get the same dependable performance built into every original Bendix Drive—performance proven by over 100,000,000 installations. Insist on *factory new* Bendix Drives and Parts when you order from your distributor.

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Bendix Drive

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Export Sales: Bendix International Division, 205 East 42nd St., New York 17, New York

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(See also Decalcomanias)

Ward's Trucksign Transfers, 8504 Lyndon Ave., Detroit 38, Mich.

VENTILATORS, Bus and Truck

Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. (Bus.)
Evans Products Co., 13101 Eckles Rd., Plymouth, Mich. "Evans." (Bus and truck cab.)
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind. (Bus.)

VENTILATORS, Crankcase

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Donaldson Co., 666 Pelham Blvd., St. Paul 14, Minn.
Fram Corp., Providence 18, R. I.
Monarch Tool & Machinery Co., 3235 S. Racine Ave., Chicago 8, Ill.
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.

VENTILATOR, Exhaust Manifold

Flint Corp., 1323 N. Water St., Milwaukee 2, Wis.

VENTILATORS, Roof

Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. (Bus.)
Evans Products Co., 13101 Eckles Rd., Plymouth, Mich. (Power driven.)
H & P Die & Stamping Co., 13945 Trishett Rd., Cleveland 11, Ohio.
Imperial Electrical Co., N. Plum St., Union City, Ind. (Cab.)
Metalcraft Mfg. Co., 916 E. 23rd St., Indianapolis 4, Ind.

VENTS, Tank Body

Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.

VISCOSIMETERS

Precision Scientific Co., 3737 W. Cortland St., Chicago 47, Ill.
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Auto oil.)

VICES, Piston

Groove-Rite Tool Co., 40300 Grand River Ave., Farmington, Mich.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lemco Products Inc., 5 & 90 Dunham Rd., Bedford, Pa.
Production Devices Inc., N. Williams St., Whitehall, N. Y. (Pneumatic and hydraulic.)
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

COMMERCIAL CAR JOURNAL, November, 1956

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• Fleet owners report that Evans Truck Heaters give complete satisfaction even in severe conditions, as illustrated here, with temperatures down to 20 degrees below zero over extended periods.



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Lempco Products Inc., 5 & 90 Dunham Rd., Bedford, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Sunnen Products, Co., 7910 Manchester Ave., St. Louis 17, Mo.

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Acme Air Appliance Co., 100 Hinesdale St., Brooklyn 7, N. Y. (Electric, tube.)
Bishman Mfg. Co., Osseo, Minn. (Tube.)

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Electric tire.)
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio. (Electrical, tube.)
Egan Mfg. Co., H. B., 425 W. Main St., Muskegon, Okla.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis. (Electric, tire and tube.)

VULCANIZERS, Shop

Allied Automotive Corp., 14512 Burt Rd., Detroit 23, Mich.

CCJ'S PRODUCT DIRECTORY

Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Cal. (Steam and electric tube.)
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Cal. (Electric and steam tube.)
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio. (Steam tube.)
Center Line Mfg. Co., 2418 McCormick St., Wichita, Kans. (Tube.)
Heintz & Co., James C., 3738 W. 143rd St., Cleveland 11, Ohio. (Tube.)
Shaler Co., Waupum, Wis. (Tire.)

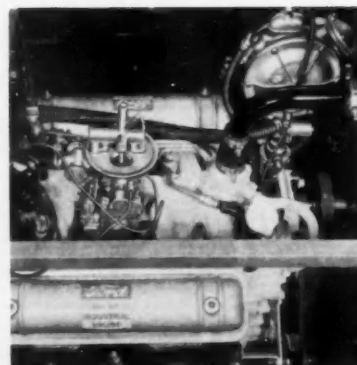
WASHERS (Fountain Brushes and Mops)

Flour City Brush Co., 301 Fifth Ave., S., Minneapolis 15, Minn. (Brushes.)
Fuller Brush Co., Industrial Div., 3651 Main St., Hartford 2, Conn. (Brushes.)
Henry Mfg. Co., 1310 Marquette St., Minneapolis Minn. (Brushes.)
Kansas City Fountain Brush Mfg. Co., 3718 Main St., Kansas City, Mo. (Brushes.)
Kleen-Mor Mfg. Co., P. O. Box 8531, Jackson, Miss. (Cotton mop.)
Laitner Brush Co., 2000 Brooklyn Ave., Detroit 26, Mich. (Brushes.)
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. (Revolving brushes and injector for liquid detergent brushes.)
Melaire Dist. Co., 420 Lexington Ave., N. Y. 17, N. Y. (Revolving brushes.)
Milwaukee Dustless Brush Co., 530 N. 22nd St., Milwaukee 3, Wis.
Molded Specialties, Inc., 1333 E. 170th St., Cleveland, Ohio. (Wash pads.)
O-Cedar Corp., 2246 W. 49th St., Chicago 9, Ill. (Mops.)
Osrow Products Co., 123-07 101 Ave., Richmond Hill, N. Y. (Brushes.)
Pacific Coast Brush Co., 1509 Santa Fe Ave., Los Angeles 21, Calif.
Ransom Brush Co., 1051 W. Division St., Chicago 22, Ill.
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Brushes; sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Tucker Mfg. Co., 305 First St., S. W., Cedar Rapids, Iowa. (Brushes.)
Wilson Inc., K. R., Arcade, N. Y.

WASHERS, Metal Parts

Aerofil Products Co., 62 Wesley St., South Hackensack, N. J.
Alvey-Ferguson Co., 75 Disney St., Oakley, Cincinnati 9, Ohio.
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Calif.
Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. (Centrifugal.)
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill.
Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.
Circor Equipment Co., 120 Central Ave., Clark Township, N. J.
Clayborne Mfg. Co., 429 N. Main St., Monticello, Ind.
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
Drying Systems, Inc., 1810 1/2 Foster Ave., Chicago 40, Ill.
Eclipse Fuel Engineering Co., 1111 Buchanan St., Rockford, Ill.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Gray-Mills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
J. P. Mfg. Co., 330 E. Front St., Youngstown 3, Ohio.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mahon Co., R. C., 6565 E. 8-Mile Rd., Detroit 34, Mich. (Combined belt conveyORIZED washer and dryer.)

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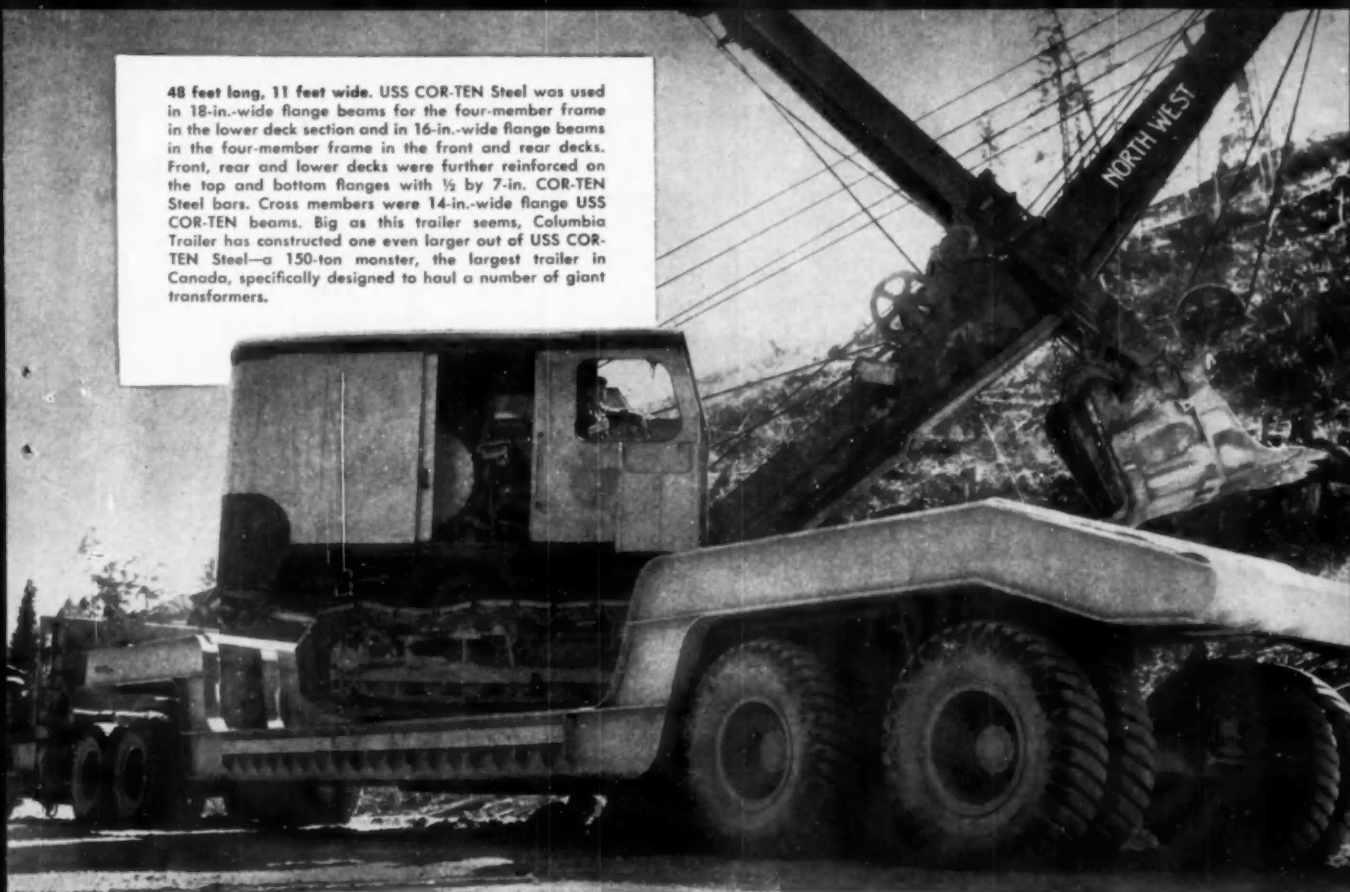
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48 feet long, 11 feet wide. USS COR-TEN Steel was used in 18-in.-wide flange beams for the four-member frame in the lower deck section and in 16-in.-wide flange beams in the four-member frame in the front and rear decks. Front, rear and lower decks were further reinforced on the top and bottom flanges with ½ by 7-in. COR-TEN Steel bars. Cross members were 14-in.-wide flange USS COR-TEN beams. Big as this trailer seems, Columbia Trailer has constructed one even larger out of USS COR-TEN Steel—a 150-ton monster, the largest trailer in Canada, specifically designed to haul a number of giant transformers.



"The use of USS COR-TEN Steel in 100-ton trailer increases strength, reduces weight about 20%,"



says **Mr. A. Kenneth Cutler**, Purchasing Agent, Columbia Trailer Company, Vancouver, B. C.

In this big trailer, designed by the Columbia Trailer Company for Columbia Cellulose Company, strength was the prime consideration. It had to be strong enough to haul off highway a two-yard, 90-ton Lima Shovel and other pieces of logging equipment such as large skid-mounted yarders and loaders. The trailer also had to be as maneuverable and light in weight as practical.

"We always use USS COR-TEN Steel in designing trailers of this type," explains Mr. Cutler. "And 90% of this trailer is COR-TEN Steel. When a trailer is made from carbon steel there is a greater possibility that it can be permanently damaged from overloading than in the case of a sim-

ilar unit made from high strength steel. USS COR-TEN also gives excellent corrosion resistance and freedom from excess weight. This finished trailer weighs 43,990 pounds—about a 20% saving over carbon steel construction."

Mr. R. Cedric Telford, Manager, Columbia Cellulose Company, Terrace, B. C., is delighted with the performance of his trailer. "The drivers have all expressed their satisfaction with the trailer. It is easy to handle and maneuver in spite of its great length. Its lighter weight, of course, will mean less cost in hauling the unit, and its increased capacity—over the 50-ton units we formerly operated—will enable us to

move our heavy logging and construction equipment more safely and quickly so as not to interrupt our production schedules."

USS COR-TEN High Strength Steel has a yield point 1½ times that of regular carbon steel, has 4 to 6 times the resistance to atmospheric corrosion, has 50% greater fatigue strength and offers superior resistance to abrasion and impact. COR-TEN Steel has long been in wide use by truck or trailer manufacturers to give their equipment greater capacity through lighter weight, greater strength or longer life.

For more data, write for a free COR-TEN booklet or contact a United States Steel Sales Office.

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USS COR-TEN High Strength STEEL



UNITED STATES STEEL

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Average braking distances on lake ice from 20 MPH

Draw bar pull in pounds on lake ice

REGULAR TIRES—NO CHAINS	191
4 UNIT CHAINS—OUTER TIRES ONLY	160
SINGLE REGULAR CHAINS—OUTER TIRE ONLY	130
REGULAR DUAL TRIPLE SIDE CHAIN—BOTH TIRES	98
SINGLE REINFORCED CHAIN—OUTER TIRES ONLY	91
REINFORCED DUAL TRIPLE SIDE CHAIN—BOTH TIRES	60
REGULAR TIRES—NO CHAINS	347
4 UNIT CHAINS—OUTER TIRES ONLY	1250
SINGLE REGULAR CHAINS—OUTER TIRE ONLY	1370
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Convenient, color-coded bags store easily... save handling time.

washers to weather strips

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Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. (Combined belt conveyor washer and dryer.)
Phillips Mfg. Co., 3475 Touhy Ave., Chicago 45, Ill.
Practical Products Co., 2652 Nicolet Ave., Minneapolis 8, Minn.
Protectoseal Co., 1929 W. Western Ave., Chicago 8, Ill.
Ransohoff, Inc., N., 16 E. 72nd St., Carthage, Cincinnati 16, Ohio.
Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

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(Advertisers only)

Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich.

WASHERS, Vehicle

(Water, steam and compressed air)

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. (Steam.)
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Chem-Therm Mfg. Co., Pasadena, Calif.
Choldun Mfg. Corp., 331 East St., New Haven, Conn.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. (Steam.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. (Steam.)
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20 Mo.
Deming Co., 884 S. Broadway, Salem, Ohio.
Detrex Chemical Industries, Inc., Box 501, Detroit 22, Mich.
Friend Mfg. Co., East Ave., Gasport, N. Y.
General Equipment Div., Sterod Mfg. Co., 442 Frelinghuysen Ave., Newark 5, N. J.
Hardie Mfg. Co., Mechanic St., Hudson, Mich.
Homestead Valve Mfg. Co., (Hyppressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. (Steam vapor spray.)
Hydro-Air Cleaning Systems, Inc., 11311 Miles Ave., Cleveland 5, Ohio.
Jetomatic, Inc., 150 Wakelle Ave., Ansonia, Conn.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Lawrence Liekweg Co., 2501 Belt Ave., St. Louis 12, Mo.
Maleberry Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Oakite Products, Inc., 19 Rector St., New York 6, N. Y. (Including tank truck interiors.)
Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill. "Backhall" (Automatic.)
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Washmobile Corp., 350 N. Foothill Road, Beverly Hills, Calif.
Wayne Pump Co., 1432 State Ave., Cincinnati 4, Ohio.
Weaver Mfg. Co., 2177 S. 9th St., Springfield, Ill.

WASHERS, Windshield, Vacuum Operated

Anderson Co., 1075 Grant St., Gary 40, Ind.
Santay Corp., 351 N. Crawford Ave., Chicago 24, Ill.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WAX, See Polish, Body

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Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Atlantic India Rubber Works, Inc., 571 Polk St., Chicago 7, Ill.
Automotive Products Div., Crotty Corp., 39 E. Chicago Ave., Quincy, Mich.

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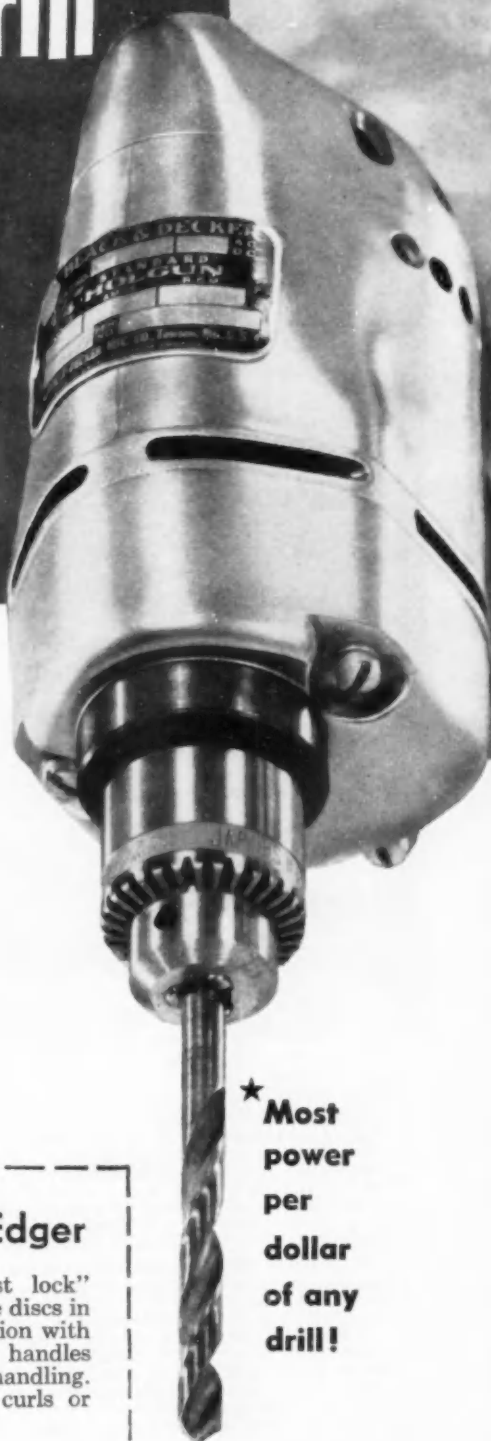
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The new model Black & Decker 1/4" Standard Holgun does any job you ask of it—at a price that's right! Streamlined, easy to handle. Lasts for years of trouble-free service. Fits in wherever a professional drill is needed.

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Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Carter Co., George R., 630 Lycaste Ave., Detroit, Mich.
Chardon Rubber Co., Chardon, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.

Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. (Windshield, window, door and trunk.)
G & C Products Co., Lindale Rd., Amelia, Ohio.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., B. F., 506 S. Main St., Akron, Ohio.
Goodrich Co., Sponge Products Div., B. F., Howe Ave., Shelton, Conn.
Hamilton-Wade Co., 52 Haverhill St., Brockton 62, Mass.
Hope Webbing Co., Providence, R. I.

Industrial Rubber Goods Co., St. Joseph, Mich.
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Johns-Manville Co., Dutch Rand Div., 7800 Woodlawn Ave., Chicago 16, Ill.
Johnson Rubber Co., Middlefield, Ohio.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
Kravex Mfg. Co., 273 Van Sinderen Ave., Brooklyn 7, N. Y. (Door and trunk.)
Lange Machine Works, Henry G., 160 N. May St., Chicago 7, Ill.
Lorraine Mfg. Corp., 54 W. Hunter Ave., Maywood, N. J.
Ohio Rubber Co., 300 Ben Hur Ave., Wiloughby, Ohio. (Sponge rubber door.)
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio.
Schwartz Rubber Corp., 3708 Payne Ave., Cleveland 14, Ohio. (Trunk.)
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Union Welt Corp., 2727 W. Roscoe St., Chicago 18, Ill.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
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This rugged new engine has been added to the Wisconsin line to fill the horsepower gap between the Model VF4 25 hp. and the Model VG4D 36 hp. Wisconsin Engines. At the same time, the mounting base is dimensionally identical to the Models VE4 and VF4 to permit convenient replacement of the latter engines if greater power is required.

The Model VH4, which now makes its bow for the first time, is the most powerful engine of its type and size available today, in our estimation. It is an engine of basic High Torque design which gives it the important advantage of being able to deliver maximum usable *Lugging Power* that carries the load through the hard, heavy pulls. It has been designed to give you the best possible performance at all engine speeds from 1400 to 2800 rpm., even when operating under intermittent shock-loads or under constant load, continuous service.

The Model VH4 is a heavy-duty engine in all respects, built for hard service under all operating conditions, at temperatures from sub-zero to 140° F. (60° C.). It is an exceptionally smooth-running, even-firing engine and has all the traditional heavy-duty features that characterize all Wisconsin Models, from 3 to 36 hp. It can be supplied as an "open engine" with side-mount fuel tank, or as housed power unit and may be equipped with electric generator and starter (or starter only), clutch, reduction or clutch-reduction assemblies . . . and is adaptable to operation on a variety of fuels such as gasoline, kerosene, natural gas, Butane, Propane or fuel oil of 35 Octane rating or better.

Learn more about this new engine. Write for Bulletin S-196 for detailed data and engineering specifications.



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MILWAUKEE 46, WISCONSIN

WEATHER STRIP ADHESIVE


Carborundum Co., Niagara Falls, N. Y.

WEIGHTS, Wheel Balancing

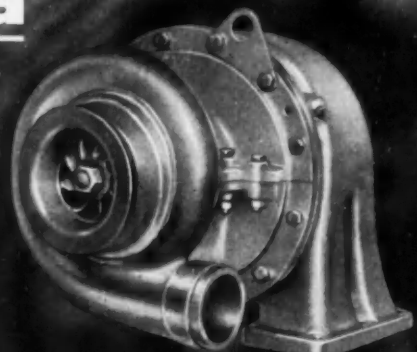
Amplex Engr. Co., 2510 Grand Ave., New Castle, Ind.
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Binder Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
Hunter Products Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Lucas Mfg. Corp., 309 S. Union St., Kokomo, Ind.
Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Perfect Equipment Corp., 804 W. Morgan St., Kokomo, Ind.
Pouell Mfg. Co., 813 Burlington Ave., Logansport, Ind.
Snugg Wheel Weight Mfg. Co., Div. of Mid-Western Auto Parts, 524 E. Elm St., Kokomo, Ind.
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wheel Weights, Inc., 122 S. First St., Ann Arbor, Mich.

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Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.
Birdsell Mfg. Co., 750 San Antonio Rd., Palo Alto, Calif.
Borm Mfg. Co., 23 N. Union St., Elgin, Ill.
Couse Mfg. Inc., 300 Passaic St., Newark 4, N. J.
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Mammatt Electric Mfg. Co., 209 W. 19th St., Kansas City, Mo.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee 14, Wis.
Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.
Lee Co., K. O. Congress at First Ave., S. E., Aberdeen, S. D.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio. (Automatic.)
Marquette Mfg. Co., 301 E. Hennepin Ave., Minneapolis 14, Minn.



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We invite your inquiry on their application to your diesel equipment.

BASIC SPECIFICATIONS FOR AIRESEARCH TURBOCHARGERS

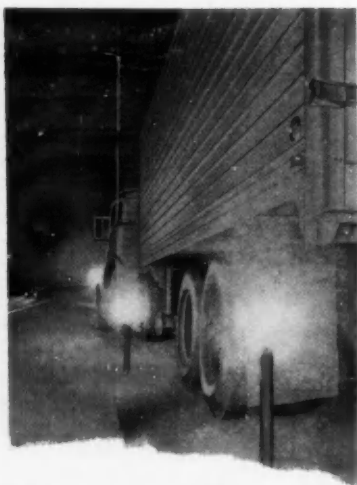
MODEL	T-10	T-14	T-15	T-30-2	T-30-6
Diameter — in. nom.	9	11.5	15.25	15.25	16
Length — in.	9	14.12	16.75	17.25	21.75
Weight — lb.	40	95	125	135	195
Output — lb/min. (Standard Conditions)	25-40	35-65	35-65	70-95	115-175

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AiResearch Industrial Division

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KILGORE

Flares

Provide

**SAFETY, LIGHT, CONVENIENCE
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A pitch-black night . . . a heavily-traveled highway . . . a stalled, unlighted truck . . . a rapidly approaching car . . . all stage props for a serious, costly accident. But, with Kilgore Flares placed ahead, alongside and behind the truck, the oncoming motorist is aware of lurking danger.

Kilgore Automotive and Truck Flares perform in all kinds of weather. Faster starting . . . candle power substantially exceeds minimum requirements . . . convenient, sturdy wire stand or spike . . . plastic plug for greater rigidity. Equip your fleet with Kilgore Automotive and Truck Flares. See your Kilgore dealer.

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INTERNATIONAL FLARE SIGNAL DIVISION
WESTERVILLE, OHIO

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Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.
Mid-States Welder Mfg. Co., 6025 So. Ashland Ave., Chicago 36, Ill. (Also stabilizers.)
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.
Morton Mfg. Co., Broadway & Hoyt St., Muskegon Heights, Mich.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Precision Welder Mfg. Co., 660 Grand Ave., Chicago 10, Ill.
Royal Arc Industries Inc., 425 Cedar St., Chillicothe, Ill.
Sight, Fred, Generator Co., West Alexandria, Ohio. (Automatic.)
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis.
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Swift Ohio Corp., 8095 Livernois St., Detroit 4, Mich.
Trindl Products, Ltd., 1807 S. Clark St., Chicago 16, Ill. (Welding.)
UB Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.
Vickers Electric Div., Vickers Inc., 1815 Locust St., St. Louis 3, Mo.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

WELDERS and EQUIPMENT, Oxy-Acetylene

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Alexander Milburn, Inc., 70 Okner Parkway, Livingston, N. J.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdex."
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich. (Regulators.)
Harris Caloric Co., 5501 Cass Ave., N. W., Cleveland 2, Ohio.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Portable acetylene generators.)
Modern Engineering Co., 3411 Pine Blvd., St. Louis 3, Mo. "Meco."
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago, Ill.
National Welding Equipment Co., 218 Fremont St., San Francisco 5, Calif.
Sight Feed Generator Co., West Alexandria, Ohio. (Acetylene generators.)
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Taylor-Winfield Corp., 1052 Mahoning Ave., N. W., Warren, Ohio.
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
Victor Equipment Co., 844 Folsom St., San Francisco 7, Calif.

WELDING CABLE, See Cable, Welding

WELDING COMPOUNDS, See Compounds, Welding

WELDING HOSE, See Hose, Welding

WELDING RODS, See Rods, Welding

WHEEL ALIGNMENT EQUIPMENT, See Gages, Wheel and Axle Aligning

WHEEL BALANCING MACHINES, See Balancers, Wheel

WHEELS, Fifth

American Steel Foundries, Hohman Ave. & Hoffman St., Hammond, Ind.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill. (Hydraulic.)
Bound Brook Safety Equipment Co., 232 W. Union Ave., Bound Brook, N. J.
Cemco Industries, Inc., Galion, Ohio. (Elevating.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton 1, Ohio.
Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.



**J-M
sealing
compounds**

*Seal
joints quickly, easily
and permanently*

Johns-Manville Body Sealers are permanently plastic synthetic resin compounds developed for sealing bolt fastened joints against the passage of air, dust, and moisture. They are *highly adhesive, will not skin or harden, will not corrode metals and other surfaces, and can be painted after application.* Stable under a wide temperature range, they have excellent aging characteristics.

Available in these two types:

J-M Type A Body Sealer, of relatively soft, knife-grade consistency. Supplied in 1½" and 3" dia. pugs, extruded beads (min. diameter ¼") and ribbons (min. thickness ⅛"). Recommended for use in bulk form, this body sealer can be readily extruded on the job.

J-M Type B Body Sealer, of heavier, knife-grade consistency. Supplied in 1½" and 3" dia. pugs, in beads (⅝" dia. up), and ribbons ⅝" up. Supplied packed in flat strips or multiple and single strand reels.

Johns-Manville Body Sealers are supplied in a variety of packages for time saving application. For Sheet EL-67A and Chart EL-72A write Johns-Manville, Box 14, New York 16, N. Y. In Canada, Port Credit, Ontario.



**Johns-Manville
SEALING COMPOUNDS**



TRICKS OF THE TRADE *from* PERMATEX



COAT CHROME DISCS—Annoying rattle often develops when gravel or small stones get behind the chrome discs on car wheels. A thick coating of Form-A-Gasket No. 1 on the inside of the discs completely eliminates the noise.



STOP OIL SEEPAGE—Apply Form-A-Gasket No. 3 on both sides of gaskets to stop oil seepage around valve covers, panels and pan. It makes a perfect seal—won't harden—and gaskets are easy to remove the next time.

FORM-A-GASKET® Universal Sealing Compounds LEAKPROOF—PRESSURE-TIGHT

Check tips like these for new ways you can use Form-A-Gasket, best sealant going for leakproof, pressure-tight assemblies. Form-A-Gasket resists gasoline, water, hot or cold oil—many other liquids and gases. And it's specially made to withstand the pressures of high-compression engines.

Every Shop Needs All 3 Types



No. 1. Sets quickly
—dries hard

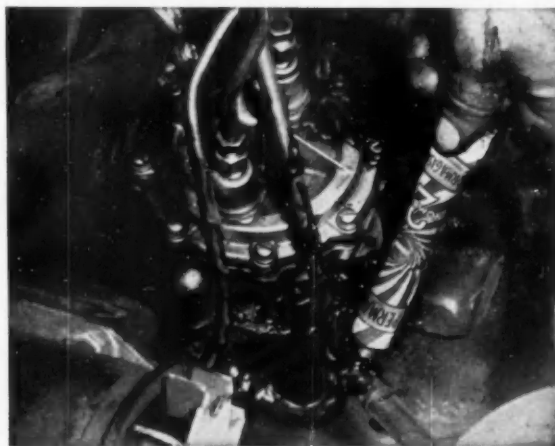


No. 2. Sets slowly
—remains pliable



No. 3. Brushable
liquid—remains tacky

Hundreds of uses around the house, too



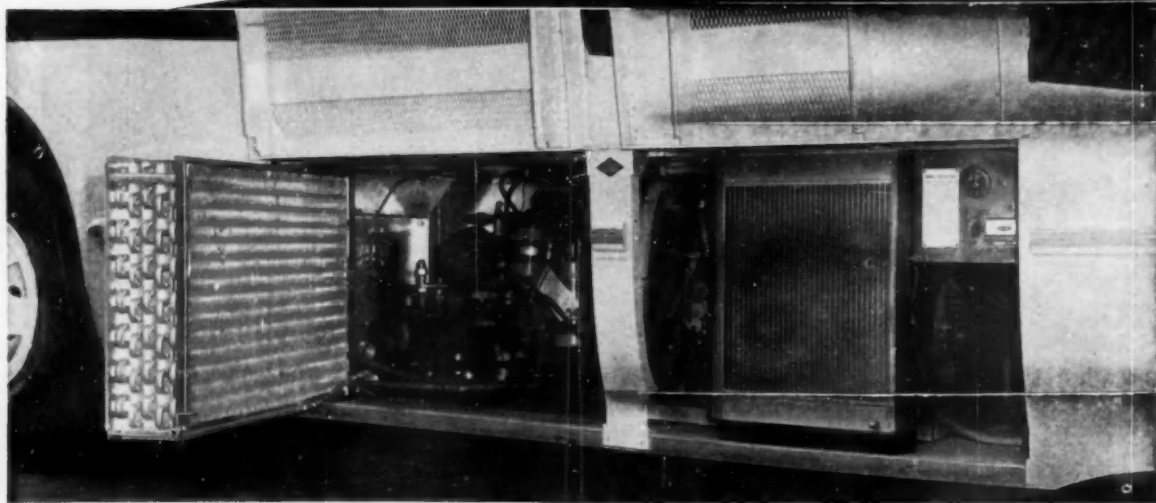
FOR VAPOR LOCK TROUBLE—Coat the fuel pump and lines with Form-A-Gasket No. 2. It forms an effective insulation barrier at the hot spots.

PERMATEX COMPANY, INC.

Brooklyn 35, N.Y. • Kansas City 15, Kans.

More than 50 Chemical Products for Better Automotive Maintenance

The



Typical compact Tropic-Aire—Carrier air conditioning installation in transit coach . . . courtesy Gulf Transportation Co., St. Louis.

story behind transit air conditioning



Transit coach air conditioning has been big news in the transport industry this year. Because this year, working with coach designers and modification specialists, Tropic-Aire engineers met and solved a great many of the problems inherent in transit coach heating and cooling.

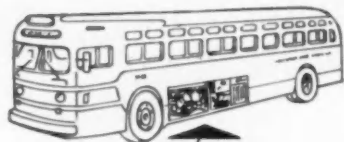
In cities across the nation, Tropic-Aire—Carrier equipment was installed in time for summer street-testing. Resultant conclusion: transit air conditioning is effective . . . it *works*. In one city, riders deliberately missed regular coaches to catch the boldly painted air conditioned bus. In another city, thousands of riders put their comments on post-cards. They said, in effect, "This is it!"

Next spring, other great cities will put Tropic-Aire—Carrier air conditioned busses on their streets.

Effective transit air conditioning involves a multitude of factors. Most essential is a heavy-duty air conditioning unit built to stand up under all kinds of conditions with a minimum of maintenance. Installation know-how is of vast importance. Proper air distribution determines the difference between outstanding performance and mediocre functioning.

If you are thinking of air conditioning your transit fleet presently, or should it become a possibility for the future, we will consider it a privilege, through a complete engineering analysis, to offer you the benefit of our broad experience in the transit air conditioning field.

McGRAW ELECTRIC COMPANY
5201 West 65th Street
Chicago 38, Illinois



MOBILE AIR CONDITIONING EQUIPMENT

wheels to wrenches

CCJ'S PRODUCT DIRECTORY

WHEELS—continued

Hodo & Vandegriff, Inc., Box 2127, Montgomery, Ala. (Fifth wheel No-tilt lock.)
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Hyster Company, 2940 N. E. Clackamas St., Portland 8, Oregon (Trailer Jockey.)
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky.
Pollard Co., C. E., 14671 Schaefer Rd., Detroit 27, Mich. (Hydraulic elevating.)
Silver Eagle Co., 5885 N.W. St. Helens Rd., Portland 10, Ore.
Spencer-Safford Loadcraft, Inc., Augusta, Kan.
Snyder Tank Corp., 3773 Lake Shore Blvd., (P. O. Box 11), Buffalo 5, N. Y.
Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivera, Calif. (Mailing address P. O. Box 2473, Los Angeles 54, Calif.)

WHEELS, Grinding

(Advertisers Only)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.

WHEELS, Vehicle, Cast Metal

Aluminum Co. of America, 801 Gulf Bldg., Pittsburgh 19, Pa.
Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio. (Spoke types.)
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Erie Malleable Iron Co., Automotive Wheel Div., 609 W. 12th St., Erie, Pa.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.

WHEELS, Vehicle, Disc

Aluminum Company of America, Pittsburgh 19, Pa.
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.

WHEELS, Trailer

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Single and dual pneumatic, malleable iron.)

French & Hecht, Div. Kelsey-Hayes Wheel Co., Third & Farram St., Davenport, Iowa.
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast steel.)
Homan & Co., Inc., 511 Reading Rd., Cincinnati 15, Ohio. (Aluminum and steel.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich. (Disc steel.)
Permolco Co., 820 W. Liberty St., Medina, Ohio. (Aluminum.)

WINCHES, Truck

Adams Engineering Co., 31711 Solon Rd., Solon, Ohio.
Beebe Bros., 2724 Sixth Ave., S., Seattle 4, Wash. (Hand.)
Braden Winch Co., Box 547, Broken Arrow, Okla.
Fulton Co., 1912 S. 82nd St., Milwaukee 14, Wis. (Hand.)
Ger Wood Industries, Inc., Wayne, Mich.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
Hubbard Mfg. Co., Farmland, Ind. (Power.)
Ohio Hoist & Mfg. Co., 13111 Shaker Sq., Cleveland 20, Ohio (Hand.)
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hand.)
Lufkin Foundry & Machine Co., Lufkin, Tex.
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
Ramsey Winch Mfg. Co., Box 3035, 5531 E. Admiral Place, Tulsa 8, Okla.
Sasgen Derrick Co., 3101 Grand Ave., Chicago 22, Ill.
Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, L. I., N. Y.
Truck Engineering Co., 1285 W. 70th St., Cleveland 2, Ohio.
Tulsa Winch Div. of Vickers, Inc., 815 E. First St., Tulsa, Okla.
Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis.
Watson Co., H. S., 1316 67th St., Emeryville, Calif. (Hand.)

WIPERS, Windshield, Air

National Pneumatic Co., 125 Amory St., Boston 19, Mass.
Sprague Devices, Inc., 500 Huron St., Michigan City, Ind.
Trico Products Corp., 817 Washington St., Buffalo 2, N. Y. (For trucks and buses.)

WIPERS, Windshield, Electric

American Bosch Div., American Bosch Armbr Corp., 3664 Main St., Springfield 7, Mass.

Delco Appliance Div. General Motors Corp., 391 Lyell Ave., Rochester 1, N. Y.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Electric Auto-Lite Co., Owen-Dyneto Div., 1930 Park St., Syracuse, N. Y.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. (For bus and trolley.)
Redmond Co., Owosso, Mich.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Storm-King Products Co., 148-08 95th Ave., Jamaica 35, N. Y.

WIPERS, Windshield, Vacuum

Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WIRE, IGNITION, STARTING AND LIGHTING. See Cable, Ignition, Starting and Lighting

WRECKERS. See Cranes, Service Truck

WRENCHES, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div. Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Millers Falls Co., Greenfield, Mass.
SpeedWay Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.
Thor Power Tool Co., 175 State St., Aurora, Ill.

WRENCHES, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 6125 Clinton Drive, Houston 1, Texas.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Thor Power Tool Co., 175 State St., Aurora, Ill.

WRENCHES, Torque

Amco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Apco Mossberg Co., Lamb St., Attleboro, Mass.
C. & G. Wheel Puller Co., Scio, N. Y. (Pre-set.)



Here are the top winners in ATA's 16th annual National Truck Roadco held in connection with ATA's annual convention in New York City last month. From left, they are Leland H. Hellestad, Milwaukee, Wis.; William Metsch, Chicago; and Everal E. Kirby, Peninsula, Ohio. ATA Managing Director John V. Lawrence is at far right. Hellestad took the straight truck division, Metsch the single-axle semi-trailer group, Kirby the tandem-axle, semi-trailer class. Kirby was also winner of the Roadco trophy for outstanding sportsmanship. Each will receive \$50 a month for one year from ATA.

It's here Now!

THE ALL-NEW LINE OF

WILLARD TRUCK BUS DIESEL BATTERIES



New higher capacities . . . new construction features, including truck types with both of the great Willard patented developments—Plate Anchor and Silver-Metalex Grid Alloy . . . all at the most competitive prices in Willard history. Regardless of the size of your fleet, you'll find it well worth your time to check out the Willard Story before you buy more batteries.

A type, size and price for EVERY fleet requirement!

**CALL YOUR NEARBY
Willard DISTRIBUTOR**

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WILLARD STORAGE BATTERY DIVISION • Cleveland 1, Ohio

WILLARD		TRUCK BUS DIESEL		BATTERIES	
Group Size	20-Hr. A.H. Rating	300 Amp. 0° F.	5-Second Voltage		
HDD-3	125	4.7	4.5		
*SMR-3H	140	5.5	4.4		
HDD-4	140	5.1	4.6		
*SMR-4H	155	6.5	4.5		
HDD-3D	315	19.0	5.1		
HDD-4D	150	6.5	9.0		
HDD-5D	168	7.2	4.6		
HDD-7D	200	9.6	4.8		
HDD-8D	200	9.6	9.6		
HDD-1B	110	1.5	7.8		
HDD-2B	130	2.7	8.0		
HDD-4B	175	4.7	8.4		
HDD-3T	175	4.7	4.2		
HDD-7T	260	9.0	4.6		

*Made with patented Plate Anchor and Silver-Metalex® Grid Alloy.

wrenches

CCJ'S PRODUCT DIRECTORY

WRENCHES—continued

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa.
Chicago Tool & Kit Mfg. Co., 230 N. Jefferson St., Chicago 6, Ill.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Fairmount Tool & Forging Inc., 10611 Quincy Ave., Cleveland 6, Ohio.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
J O Mfg. Co., 8442 Otis St., South Gate, Cal.

Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Pruto Tools, 2209 Santa Fe Ave., Los Angeles 64, Calif.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.
Richmont, Inc., 922 S. Myrtle Ave., Monrovia, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sturtevant Co., P. A., Addison, Ill.

Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson Inc., K. R., Arcade, N. Y.

WRENCHES, TIRE, See Tools, Tire

WRENCHES, Two-Speed Axle

Automotive Service Tools, Inc., Lansing, Mich.

WRIST PINS, See Pins, Piston

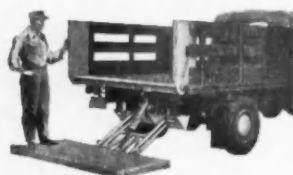
Here's trucking **AUTOMATION** that lets you combat High Cost Hauling



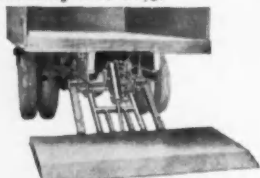
Cost saving way to handle such items as bottled air and gas, beverages, diapers, wet wash, etc. A Lift gate installed on one or both sides or end of semi-trailers gives great flexibility to many pickup and delivery operations.

ANTHONY LIFT GATES

FOR 3/4 TON and Larger Trucks and Semi-Trailers



Model No. 144 handles loads up to 1000 lbs. Cuts loading and unloading time 50%.



Model No. 145 handles up to 2000 lbs. on 1 1/2-Ton and larger trucks and semi-trailers.

Model No. 146 handles up to 4000 lbs. on heavy trucks and semi-trailers.

If high freight rates and costly delivery services are cutting a swath out of your profit picture, here are five ways you can offset them.

1. Speed up deliveries.
2. Develop faster, easier ways of loading and unloading trucks.
3. Systematize handling of bulky, awkward, heavy shipments.
4. Prevent damage to goods, yet make it easier and safer for drivers to handle most shipments alone.
5. Help drivers contribute to the satisfaction of the receiver.

All of these advantages are yours when you install Lift Gates on your trucks. We will be glad to recommend the systems, the size and type of Gate best suited for your work.

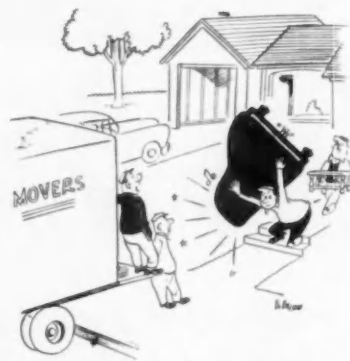
Write, wire or call us today—no obligation. One of our representatives is nearby. Dept. 5651.



ANTHONY COMPANY
Streator, Illinois

Too Late to Classify

Alan Wood Steel Co., Conshohocken, Pa.—Flooring, Truck and Trailer
Allied Motor Parts, Detroit 1, Mich.—Bearings and Bushings
Allison Division, General Motors Corp., Indianapolis 6, Ind.—Transmissions, Automatic
Aluminum Industries, Inc., Cincinnati 11, Ohio—Bearings and Bushings
Bakelite Co., 30 East 42nd St., New York 17, N. Y.—Compounds, Body Repair
Bennett Pump Division, John Wood Co., Muskegon, Mich.—Pumps, Gasoline, Filling Station
Chrysler Corp., Detroit, Mich.—Parts, Brake; Parts, Front End Suspension; Parts, Fuel Pump
Dana Corp., Toledo 1, Ohio—Take-Offs, Power Duplex Division, Warner & Swasey Co., Lansing, Mich.—Cranes, Crawler and Truck Mounted
East Akron Tarpaulin Co., 1048 Bank St., Akron 5, Ohio—Covers, Truck
Fawick Corp., Cleveland, Ohio—Brakes, Air; Brakes, Hydraulic; Brakes, Vacuum Power
Hendrickson Mfg. Co., 8001 West 47th St., Lyons, Ill.—Axles, Trailer
J. H. Holan Corp., 4100 West 150th St., Cleveland 11, Ohio—Cranes, Crawler and Truck Mounted
Johns-Manville, Box 14, New York 16, N. Y.—Compounds, Body Sealing
Lake Auto Radiator, 5200 West 130th St., Cleveland 30, Ohio—Tools, Radiator
Luber-Finer, Inc., 2514 South Grand Ave., Los Angeles 7, Cal.—Filters, Gasoline; Filters, Oil Refills
Moreo, Inc., Bedford, Ohio—Crankshafts, Reconditioned
Muncie Parts Mfg. Co., 2601 South Jefferson, Muncie, Ind.—Bearings and Bushings (for power take-off drive lines)
Prior Products, Inc., P.O. Box 349, Middletown, Ohio, P.O. Box 7608, Dallas, Texas—Filters, Gasoline
H. B. Reed Corp., 91 Passaic St., Passaic, N. J.
H. B. Reed & Co., 6618 Kennedy Ave., Hammond, Ind.—Sand, Traction Sander
Southeo Division, South Chester Bldg., 228 Industrial Highway, Lester, Pa.—Bolts, Blind Truckstall, Union Commerce Bldg., Cleveland 14, Ohio—Frames, Pressed Steel (Swivel)
Valvoline Oil Co., Freedom, Pa.—Fluids, Transmission
Vapor Heating Corp., 80 East Jackson Blvd., Chicago 4, Ill.—Cleaners, Engine, Chassis and Fender
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.—Signals, Low Air Pressure, Brake



"Can't even carry a tune!"



IN A 10-YEAR PERIOD...

**"We save \$1000 to \$1500 per trailer
when they're made from
STAINLESS STEEL"**

*says Arnold Haupt, Vice-President
Steffke Freight Company
Wausau, Wisconsin*

STEFFKE FREIGHT COMPANY started in business in 1932 with one truck plus a rented unit. A year later, Arnold Haupt joined the company as an over-the-road driver. Today, Steffke operates 500 trailers and 200 trucks and grosses about \$10 million . . . and Mr. Haupt is Vice-President in charge of operations and labor relations for this 1100-employee company.

The company first discovered the advantages of Stainless Steel trailers in the late 30's when they were hauling huge quantities of fish. In no time at all, the fish juice corroded or rusted the bottoms of the trailers and put them in the shop for expensive repairs—but Stainless trailers were completely unaffected.

A second major test was fertilizer. It would sift into all parts of the trailer. Then, when it would pick up moisture, it turned into a fiercely corrosive material even worse than fish. Again, the Stainless trailers were unaffected.

According to Mr. Haupt, "Stainless trailers have reduced spillage damage to the vanishing point. And when you consider the easier cleaning, elimination of painting, greater durability and higher resale value, we figure we save between \$1000 and \$1500 per Stainless trailer over a 10-year period.

"The new Fruehauf Stainless Steel Volume Vans add something else, too. Because of their extra capacity, we can haul an extra \$34 payload on a typical run."

UNITED STATES STEEL CORPORATION, PITTSBURGH • AMERICAN STEEL & WIRE DIVISION, CLEVELAND • COLUMBIA-GENEVA STEEL DIVISION, SAN FRANCISCO
NATIONAL TUBE DIVISION, PITTSBURGH • TENNESSEE COAL & IRON DIVISION, FAIRFIELD, ALA. • UNITED STATES STEEL SUPPLY DIVISION, WAREHOUSE DISTRIBUTORS
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

USS STAINLESS STEEL



SHEETS • STRIP • PLATES • BARS • BILLETS • PIPE • TUBES • WIRE • SPECIAL SECTIONS

UNITED STATES STEEL

ERIE WHEELS *and* BRAKE DRUMS

ERIE ALLOY BRAKE DRUMS . . .

Provide Excellent Braking Characteristics.



Automotive Wheel Division

ERIE
MALLEABLE IRON CO.
ERIE, PA.

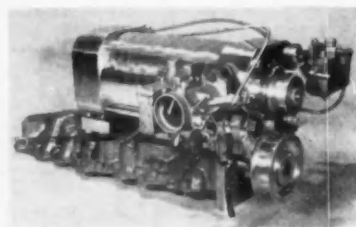
New Products

Continued from Page 56

LI fuels or fuel oil of 38-42 deg Baume gravity and 35 octane rating. Special equipment available includes hydraulic pump, visual-type air pre-cleaner, rotating screen, automatic high temperature switch, electric generator and starter (or starter only), clutch assembly, reduction assembly or clutch-reduction assembly.

P22. Supercharger

Latham Mfg. Co., West Palm Beach, Fla., announces an interesting supercharger. It is an axial flow, engine-



driven model. Construction is similar to a turbine with stator and rotor equipped with fixed vanes or blades. Rotor movement pushes air through the blades to build-up pressure.

P23. Feather Edger

The Black & Decker Mfg. Co., Towson, Md., announces a new electric feather-edger. Tool is prevented from digging in the work by a combination of features that causes the abrasive disc to slip when excessive pressure is applied. Paper-backed discs can be changed in seconds with a patented bayonet-type twist lock, which automatically adjusts for the correct tension. Weight is 6½ lb.

P24. Ice Melter

Speco, Inc., Cleveland, Ohio, announces a new chloride-free ice and snow melting material in prismoid form, reputed to be harmless to pavements, metals and vegetation. Known as "Ice Rem-CF," it is said to contain neither calcium nor chlorides. In addition, it is claimed that it will not corrode aluminum and other metals. It is available for shipment in hopper cars or dump trucks plus 100, 200, 300 and 500-lb fiber drums. Ton lots are packaged in 100-lb ICC approved shipping bags.

(TURN TO PAGE 308, PLEASE)



"We save shop time...increase our profits on repair jobs...bring in \$1500 extra business a year with HYPRESSURE JENNY STEAM CLEANER..."



says
ART LEONE
Owner and Manager of
CRAIG ST. SERVICE

CRAIG STREET SERVICE, Pittsburgh, Pa., is a general service garage owned and managed by Mr. Art Leone.

Before starting a motor repair or overhaul job, Mr. Leone thoroughly Hypressure JENNY steam cleans the parts to be worked on. With no muck, oil or grease to slow them down, Mr. Leone's mechanics can work faster and more efficiently. Result: **SAVINGS IN TIME AND LABOR!** In addition, Mr. Leone's Hypressure JENNY brings him an average of \$1500 *EXTRA Business*

A Year, cleaning car and truck engines, chassis, springs, etc., for car owners, fleet operators and car dealers.

HYPRESSURE JENNY more than pays for its cost the first few months of service, and keeps right on earning. We'd like you to know how JENNY can *save and earn* for you too.

MAIL THIS COUPON TODAY →

HYPRESSURE
Jenny
STEAM CLEANER

Without obligation send me full particulars on:

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City _____ State _____

... division of HOMESTEAD VALVE MANUFACTURING COMPANY

P.O. BOX 90

"Serving Since 1892"

CORAOPOLIS, PA.

New Products

Continued from Page 306

P25. Oil Filter

Wix Corp., Gastonia, N. C., has developed a new full-flow oil filter. This new Model No. PC-15 filter is designed for "twist-of-the-wrist" hand installation without the need of any tools. Filter housing, cover, cover bolt, loose gaskets, and oil lines have



been eliminated. A built-in relief valve is part of the filter. Supplemen-

tal to the "Spin-On" filter is an adapter to make this new filter easily and quickly suitable as replacement.

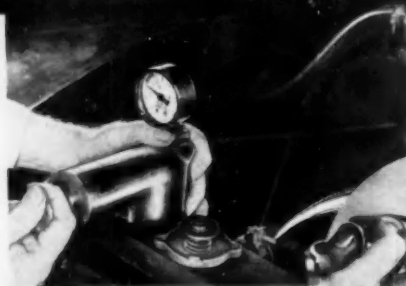
P26. Wheel Weights

Turner Mfg. Co., Kokomo, Ind., has a new style truck wheel weight designed especially for use on outside flanges of Goodyear 7.50 and 8.25 tubeless-type truck rims. It comes in 4, 6, 8, 12 and 16 oz. sizes. Serrations in face of weight permit accurate sawing to obtain odd sizes when needed.

P27. Ignition Analyzer

King Electric Equipment Co., Cleveland, Ohio, announces a new universal coil-condenser-circuit tester, identified as Model No. G-222. It serves the dual purpose of testing both 6- and 12-volt battery-ignition and magneto coils, plus all types of condensers. In addition, it is claimed that vehicle ignition output may be

certify winterizing with Stant Tester



CHECKING FOR LEAKS
IN THE COOLING SYSTEM



TESTING
PRESSURE CAP

*precision-check
cooling systems
with Stant
Tester
this fall!*

Anticipate and correct the winter cooling system troubles of your vehicles with a Stant Tester. Protect yourself before you install the coolant. Certify your winterizing program by finding the need for new caps, hose, clamps, chemicals, radiator and water pump repairs . . . with a Stant Tester. For the first time this fall, insure your preventive maintenance.

money-saving tool

Use this accurate rugged instrument for long trouble-free service. There's years of engineering research behind it. *Exclusive Stant features:* wear-proof, accurate cams and cam lugs . . . convenient right-angle design . . . accurate, no guess-work, fool-proof gauge . . . manual relief valve . . . heavy cast adapters. Write for catalog today . . . naming jobber.

STANT MANUFACTURING CO., INC.
Connersville, Indiana



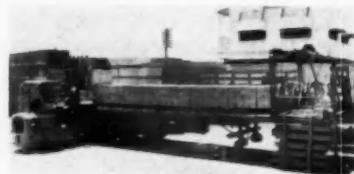
*Used on America's Finest Automobiles
as Standard Equipment for a generation*



measured and compared at each spark plug, for locating losses in distributor caps or high tension wiring.

(TURN TO PAGE 310, PLEASE)

Trailer Unloads Itself



Texcrete Co., Fort Worth, Texas, finds this Hobbs trailer equipped with a "Superlite" unloader cuts loading and unloading time drastically. Hauling concrete building products, Texcrete palletizes the material, loads it with a fork lift. Loading time is about 10 min as compared to two hours using two men, says Texcrete. The unloader, made by Builders Equipment Co., Phoenix, Ariz., does the job in 25 min as compared to the driver's former four-hour job. For further details on the unloader, circle P 48 on the postcard on page 52.

If it's worth a good serviceman's time ...



... it's worth good automotive wire



Belden PRIMARY WIRE

There is a long-life Belden Wire for every car, truck, bus or tractor requirement. Belden Kits and combinations make installation easy.



Belden

WIREMAKER FOR INDUSTRY
SINCE 1902
CHICAGO

6-7

Battery Cables

• Spark Plug Wires

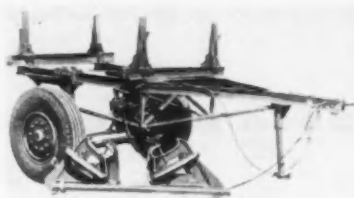
• Lighting Wires

New Products

Continued from Page 308

P28. Pole Trailer

Adams Engineering Co., Solon, Ohio, announces addition of a combination cable reel and pole trailer to its line. For transporting cable reels it uses standard reel saddles and guides. For carrying poles or general cargo, interchangeable bolsters are



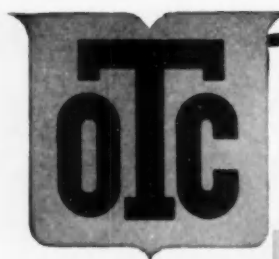
provided. Conversion from bolsters to reel saddles can be made in the field using standard hand tools. Two models are available, both rated 8000 lb capacity.

P29. Brake Clamp

Ammco Tools, Inc., North Chicago, Ill., announces its Model No. 4290 "Quick-Air" shoe clamp as an accessory for its Model No. 2000 "Safe-Are" brake shoe grinder. It provides for air-powered instead of manual shoe clamping.

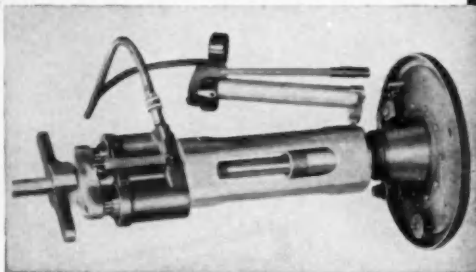
P30. Hose Tender

Vari-Products Co., Chicago, announces its "Hose-Tenna" hose and cable tender for tractor-trailer connecting lines. It features a compres-



ANNOUNCES

HYDRAULIC TRUCK AXLE TUBE PULLER



OTC 50 Ton hydraulic unit removing tube from truck axle housing—set up and pulling takes only a few minutes.

**SAVE HOURS
OF LABOR**

AND DOWN TIME ON EVERY PULLING JOB

With this new OTC 50 Ton hydraulic puller set, truck axle tubes may be removed (even if broken) and installed in minutes instead of hours. Assembly is simple and positive—tubes are removed without damage—and installed without distortion. Costly *Down Time* is cut by hours.

The OTC 50 Ton hydraulic unit is adaptable to hundreds of similar jobs. With the many OTC pullers and adaptors available it may be used as a portable power unit in shop or field, to push, pull, spread, lift, and straighten.

Shops already equipped with the 50 Ton unit need only to add the appropriate pulling and installing attachments.

SEE YOUR JOBBER OR WRITE US FOR COMPLETE INFORMATION

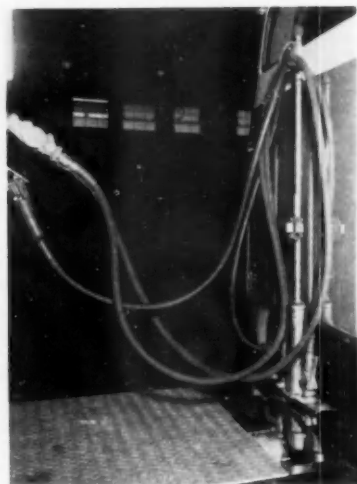


One man can quickly install a truck axle tube without distortion with a new OTC 50 Ton hydraulic unit.

FREE NEW
HYDRAULIC
PULLING BOOKLET

OWATONNA TOOL COMPANY

341 CEDAR STREET
OWATONNA, MINNESOTA



sion type spring for safe handling of air vacuum or electric cables on tractor trucks. It can be adjusted and located to prevent hose whipping and hose slack.

END

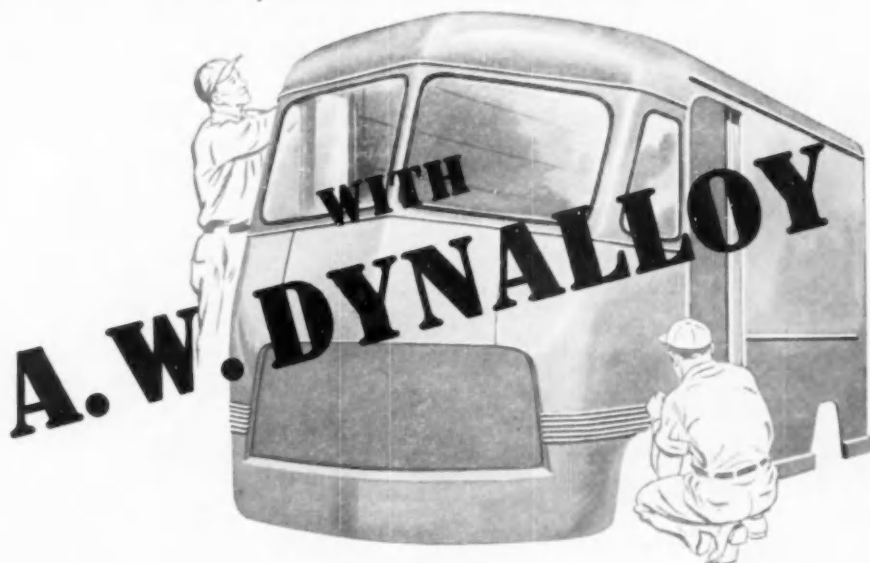
Please Resume Reading Page 60

Cover Your Pick-up



Glas Laminates, Inc., Costa Mesa, Cal., is producing fiber glass reinforced plastic covers for pick-up trucks. Models are available to fit $\frac{1}{2}$ and $\frac{3}{4}$ -ton units made by Chevrolet, Dodge, Ford, GMC, International and Willys. They are quick to install—take two men, fasten with four bolts using wing nuts. Standard $\frac{1}{2}$ -ton model weighs 130 lb. For further details, circle P 49 on the postcard on page 52.

"BETTER BUILT"



...to take a beating

You'll find that phrase—"Better Built"—almost everywhere delivery trucks are sold. It's the hallmark of Boyertown Auto Body Works, of Boyertown, Pa., who have been building better vehicle bodies for more than 83 years.

Boyertown looks to Dynalloy—a product of Alan Wood Steel Company, for the high-strength, low-alloy steel that means greater toughness and durability in its bodies.

For the finely finished press-formed sections that are the backbone of its bodies, Boyertown looks to Parish Pressed Steel whose uniform fabrications give custom perfection at mass-production cost.

These three famous names—Alan Wood, Parish and Boyertown—add up to greater strength, lighter weight, lower cost and longer life in your next delivery truck body.

More strength—per pound—per dollar!

ALAN WOOD STEEL COMPANY

steelmasters for 130 years • CONSHOHOCKEN, PENNA.

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IRON PRODUCTS "Swede" pig iron STEEL PRODUCTS Plates (sheared) A.W. Dynalloy (high-strength steel) Hot rolled sheets Hot rolled strip Cold rolled sheets Cold rolled strip ROLLED STEEL FLOOR PLATE A.W. ALGRIP abrasive A.W. SUPER DIAMOND Pattern COAL CHEMICALS	A.W. CUT NAILS Standard & Hardened MINE PRODUCTS Iron ore concentrates Iron powder Crushed stone Sand COKE Foundry, industrial & metallurgical PENCO METAL PRODUCTS DIVISION Steel cabinets, lockers & shelving
--	---



DY-91

Manufacturers' Literature

(See page 50 for Fleetman's Library)

Muffler requirements as specified by the 48 states have been consolidated into one folder by Merit Mufflers, Toledo, Ohio. It also includes specifications for some 78 cities that have muffler or noise laws. It is available free to Merit customers by circling L 9 on the postcard on page 52.

Lubrication data for truck and bus fleet operators plus data about Amalie lubricants and oils are included in a pocket-size booklet just published by Amalie Division, L. Sonneborn Sons, Inc., Franklin, Pa. Circle L 10 for your free copy.

Safety equipment for vehicle and shop—including flash lights, lanterns, safety lights, carbide lamps, safety cans—are covered in this new catalog from Justrite Mfg. Co., Chicago. For your free copy, circle L 11 on the postcard.

Heat Insulating material called "Basaltwood" is described in a new 4-page brochure from Kittel-Lacy, Inc., El Monte, Cal. For your free copy, circle L 12 on the postcard.

Mufflers made by Merit Mufflers, Toledo, Ohio, are covered in a new 1956 catalog available by circling L 13 on the postcard.

Boring bar for reboring worn, distorted or egg-shaped brake anchor pin holes or brake cam shaft holes in spider or differential housing of axle load tube is described in a bulletin available free from Smith Devices, Inc., Philadelphia. Circle L 14 for your free copy.

Tackers and staplers made by A. L. Hansen Mfg. Co., Chicago, for such body work as installing insulation, upholstery and the like are described in a new booklet you can get by circling L 15 on the postcard on page 52.

Wire and cable for automotive use is covered in a new catalog just published by Belden Mfg. Co., Chicago. For your free copy, circle L 16 on the postcard.

Concrete resurfacer said to be oil and acid resistant is described in a new folder available from Stonhard Co., Philadelphia. Circle L 17 for your free copy.

Metal fasteners—bolts, nuts, screws, washers and special types—are described in this newly revised catalog from Sterling Bolt Co., Chicago. To get a copy, circle L 18 on the postcard.

Clutch plates, both new and rebuilt, are described in three new catalog supplements just announced by Accurate Parts Mfg. Co., Chicago. Circle L 19 for your free copy.

Multi-stop delivery trucks made by Divco Corp., Detroit, including latest "squared-up" and 16,500-lb GVW models, are covered in this new catalog you can get by circling L 20 on the postcard on page 52.

Automotive vehicle principles are included in this 573 page basic manual prepared for military personnel. It is a full basic description of the military truck. You can get it from Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Ask for "Principles of Automotive Vehicles." Catalog No. D101.11:9-8000. Price is \$3.25.

END

Please Resume Reading Page 52

I.C.C. Regulation 193.51

Demands Warning Device

for Power Operated Brakes

stop

• FOR LOW AIR
• FOR LOW VACUUM

These Visible Moving

WARNING SIGNALS

are Fool-Proof, Low in Cost

Easily Installed on Old or New Equipment



WIG-WAG

PATENTED

for Air Brakes

- Designed for accuracy in operation.
- Can not be reset until air pressure exceeds minimum requirements for safe operation of vehicle.
- No upkeep expense. Low original cost.
- No electrical connections—no extra equipment to buy.
- No radio interference—no shielding required.



SURE-VAC

PATENT APPLIED FOR

for Vacuum Brakes

- A positive warning signal eliminates all excuse for vacuum failure accidents.
- It demands immediate action from the operator.
- Will not reset itself until vacuum exceeds minimum requirements for safe operation of vehicle.
- No electrical connections; no extra equipment to buy.
- Low original cost.

See Your Distributor, or Write Direct to

MONROE STANDARD, INC.
GALION, OHIO DEPT. C

"...ever try **DUNLOPS**?"



You be the judge: We could tell you—'til we're blue in the face—how Dunlop designs and manufactures quality truck tires that live up to every claim made for them. But, chances are the only way you'll be satisfied that they meet your requirements is to try them under your own operating conditions.

Then you'll see how Dunlop Tension-Free construction

adds extra original mileage by anticipating loads—distributing stresses—reducing internal tire temperatures. You can check the durability, stability and traction of the wider, flatter, huskier Dunlop tread. Your records will show you factual proof of longer tire life and more recaps.

Don't take our word for it. See for yourself why it's to your advantage to switch to Dunlops.

You'll go farther for less on **DUNLOPS**

DUNLOP
Super Gold Cup
Highway



An all-wheel tire for all high-speed heavy load hauls.

DUNLOP
Super Gold Cup
Extra Mileage
Highway



A performance-plus tire for top-speed, top-load, long distance hauls... at lowest cost per mile.

DUNLOP
Super Gold Cup
Max-Trakgrip



A heavy duty tire for the roughest, toughest on-and-off the road service.

DUNLOP TIRE AND RUBBER CORPORATION, Buffalo, New York... Founders of The Pneumatic Tire Industry

Fleet Training Course School Directory

COMPLETE names and addresses to write to for further information on fleet training courses offered by the various schools and colleges throughout the year. As the courses are scheduled, advance announcements are carried in **COMMERCIAL CAR JOURNAL'S** monthly Calendar of Fleet Training Courses.

Alabama—M. O. Hulsey, Trade and Industrial Education Dept., Box 1813, University of Alabama, University, Ala.

California—(1) Bob Glenn, Institute of Transportation and Traffic Engineering, University of California, Berkeley 4, Cal. (2) J. H. Mathewson, Dept. of Engineering, University of California, Los Angeles 24, Cal.

Colorado—W. M. Lewis, Community College Civic Center, University of Denver, Denver 2, Colo.

Connecticut—T. A. Toedt, Extension Division, University of Connecticut, Storrs, Conn.

Florida—(1) G. M. Turner, General Extension Division, University of Florida, Gainesville, Fla. (2) S. F. Messer, Safety Education, University of Miami, Coral Gables 46, Fla. (3) W. L. Hooper, Trade and Industrial Education, Jacksonville School of Technology, Jacksonville, Fla. (4) H. A. Heiser, Adult Education, University of Tampa, Tampa, Fla. (5) L. B. Tyndall, Board of Public Education, P. O. Box 391, Bartow, Fla. (6) M. J. Canto, Mary Karl Vocational School, P. O. Box 111, Daytona Beach, Fla. (7) C. A. Bellum, Sarasota Vocational School, Sarasota, Fla. (8) E. F. Johnson, Palm Beach County Vocational School, West Palm Beach, Fla.

Georgia—(1) W. N. Cox, Jr., School of Industrial Engineering, Georgia Institute of Technology, Atlanta, Ga. (2) J. H. Lemly, Georgia State College of Business Administration, Atlanta 3, Ga.

Illinois—(1) G. V. Carmichael, The Traffic Institute, Northwestern University, Evanston, Ill. (2) Robert Newton, College of Commerce and Business Administration, University of Illinois, Urbana, Ill. (3) K. M. Hutchison, Heavy Equipment Division, Greer Shop Training, Inc., 2230 South Michigan Ave., Chicago 16, Ill.

Indiana—D. A. Weaver, Public Safety Institute, Purdue University, Lafayette, Ind.

Iowa—M. E. Gould, Engineering Extension Services, Iowa State College, Ames, Iowa.

Kansas—(1) Marvin Crique, Lawrence Center, University Extension, University of Kansas, Lawrence, Kan. (2) N. W. Rickhoff, Extension Center, University of Kansas, Kansas City, Kan.

Kentucky—Lew Ullrich, Kentucky Motor Transport Assn., 601 Republic Bldg., Louisville 2, Ky.

Louisiana—J. P. Dyer, University College, Tulane University of Louisiana, New Orleans 18, La.

Maryland—S. S. Steinberg, College of Engineering, University of Maryland, College Park, Md.

Massachusetts—F. M. Cushman, Traffic Management Institute (traffic and transportation courses), or N. G. Copp, Bureau of Business and Industrial Training (fleet training courses), Northeastern University, Boston 15, Mass.

Michigan—(1) J. C. Kohl, Transportation Institute, University of Michigan, Ann Arbor, Mich. (2) B. I. Loft, Continuing Education Service, Michigan State University, East Lansing, Mich.

Minnesota—(1) F. E. Berger, Center for Continuation Study, University of Minnesota, Minneapolis 14, Minn. (2) J. E. Spere, Moorhead State Teachers College, Moorhead, Minn.

Mississippi—O. D. Smith, Evening Courses and Centers, University Extension, University of Mississippi, University, Miss.

Montana—L. W. Eckel, Montana Motor Transport Assn., P. O. Box 1244, Billings, Mont.

Nebraska—R. W. Mills, University Extension Division, University of Nebraska, Lincoln 8, Nebr.

(TURN TO PAGE 316, PLEASE)



**troublesome
handling job made
inexpensive with a**

BRADEN WINCH

One man and a BRADEN Winch can do many jobs that might ordinarily require a crew of workers. The handling work a BRADEN Winch can do is limited only by the imagination of the operator.

BRADEN models are made for handling any load up to 100,000 pounds, with safety. So to save time and money, specify a BRADEN Winch for any handling job.

*write for
complete
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BRADEN WINCH COMPANY

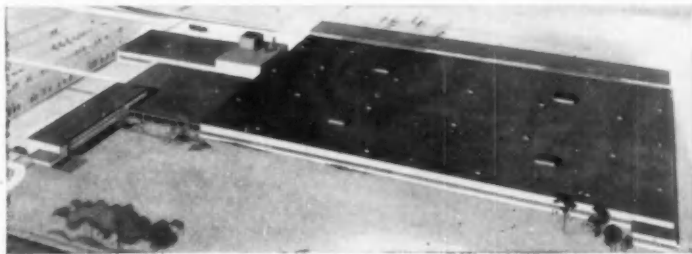
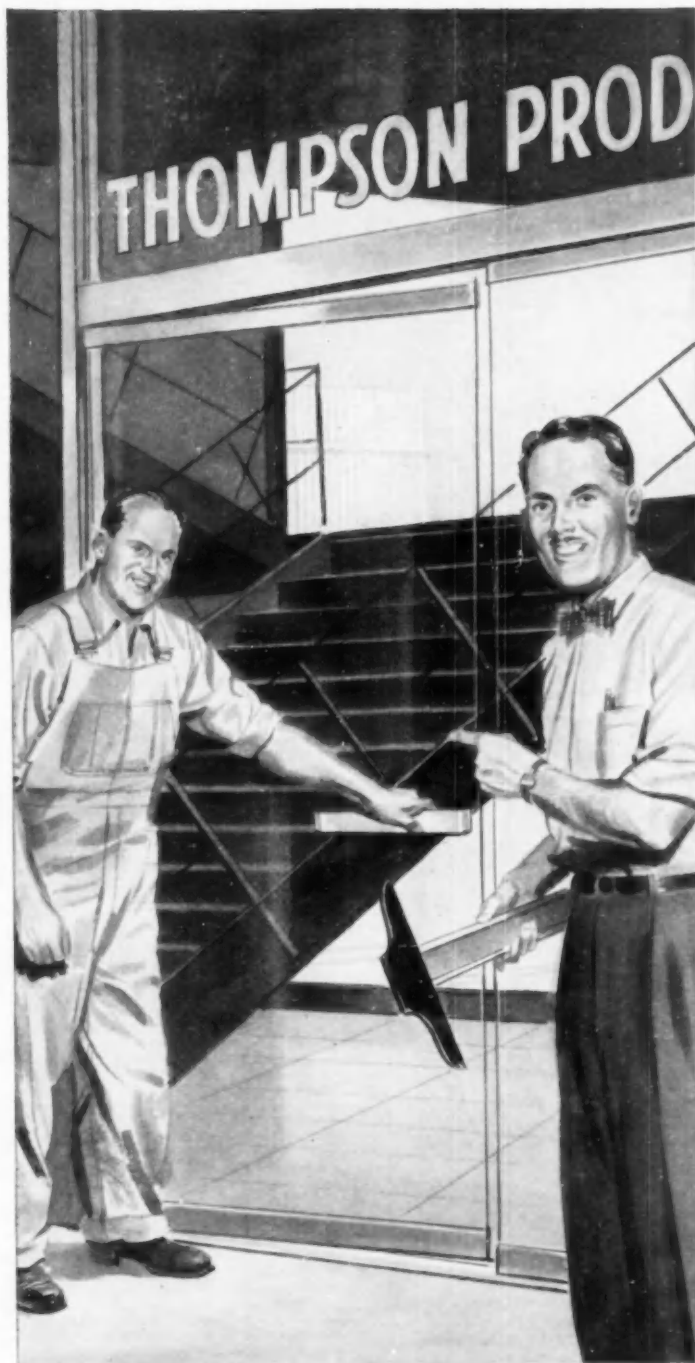
P. O. Box 547, Broken Arrow, Oklahoma



Plastic and Magnesium



Boyetown Auto Body Works, Boyertown, Pa., announces its "Weight Saver Merchandiser" bodies. Cab is of fiber glass reinforced plastic, has, says Boyertown, styling not economical if tooled in metal. Magnesium parts include floor and sub-structure, doors, roof frame, side panels and rub rails. The above 10-ft body has 365 cu ft capacity with 12-ft units also in production.



New Thompson plant now in operation.

It's open NOW!

*Thompson's new, modern automotive
parts manufacturing facility*

ALREADY production is humming in Thompson's brand-new parts-manufacturing plant just opened at 34201 Van Dyke, Warren (Detroit), Michigan. This completely modern facility is employing the latest methods and equipment available to provide low-cost, most efficient manufacture of chassis parts.

Chassis design improvement has become an increasingly important factor in the automotive industry's future planning. This, plus the tremendous acceptance of Thompson steering linkage and other chassis parts has made Thompson's latest expansion necessary.

Finer steering linkage and suspension parts, new and advanced manufacturing techniques, better customer service—these are but some of the advantages that Thompson offers you.

Have *your* engineers call on Thompson to help develop your steering linkage and suspension. Write, wire or phone Thompson Products, 34201 Van Dyke, Warren, Michigan.

**You can count on
Thompson
Products**

Michigan Division: Detroit • Portland

Oshkosh for Highways

Oshkosh Motor Truck Co., Oshkosh, Wis., announces a new series of trucks for gravel hauling and highway maintenance. Shown is the Model No. 45-55JT, typical of the series. They are powered by either a Continental 427-cu in. gasoline engine or a Cummins JT-600 diesel engine; have an 8½ cu yd gravel dump body, carry a payload of 18,000 lb on front axle. They are built for mounting an underbody blade for road grading work, or a large sander body in conjunction with the underbody blade for winter road maintenance and ice control. Other features include short wheelbase of 144 in. and Vickers power steering.

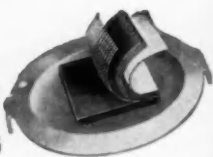


SAFETY-PROVEN WAY TO REPAIR TUBELESS TIRES



- 1 Buff puncture area with No. 6633 Wire Buffer.
- 2 Fill puncture area with Dillelectric Filler Rubber using No. 5213-T Threading Tool.
- 3 Apply No. 6626-25 Dillelectric Nylon Reinforced Patch using No. 6691 "U" Clamp with wires attached to No. 6685 Dillelectric Clamp.

**NYLON
Reinforced
PATCH**
No. 6626-25



Reinforced with over 1500 inches of Nylon filament woven into a square mesh fabric. Provides strength vital for tubeless tire repair safety. Uncured square patch vulcanizes into feather-edge round shape.



**Order No. 6626-25
DILLELECTRIC
NYLON PATCHES**

Each package includes 25 Patch Units, one Electric Heating Element, and Extra Filler Rubber for threading puncture holes.

**Order No. 6691-G
"U" CLAMP OUTFIT**

Includes: No. 6691 "U" Clamp with secondary and ground wires, No. 6633 Buffer Kit, No. 5213-T Threading Tool, No. 5218 Pressure Lube Gun, and package of 25 No. 6626-25 Dillelectric Nylon Patch Units.



*ORDER NOW from your wholesaler, tire or oil company, or write for complete data:

THE DILL MANUFACTURING CO.
700 East 82nd St.
Cleveland 3, Ohio

School Directory

Continued from Page 314

- New Hampshire**—F. H. Plaisted, University Extension Service, University of New Hampshire, Durham, N. H.
- New Jersey**—W. J. Daw, University Extension Division, Rutgers University, New Brunswick, N. J.
- New Mexico**—M. H. McMichael, Division of Extension, Summer Session and Community Services, University of New Mexico, Albuquerque, N. M.
- New York**—(1) H. J. Stack, Center for Safety Education, New York University, New York 3, N. Y. (2) B. P. Crandall, College of Business Administration, Syracuse University, Syracuse 10, N. Y. (3) Nicholas Kish, Millard Fillmore College, University of Buffalo, Buffalo, N. Y. (4) Donald Hoppe, Counselor, Rochester Institute of Technology, Rochester 3, N. Y.
- North Carolina**—(1) E. W. Ruggles, College Extension Division, North Carolina State College of Agriculture and Engineering, University of North Carolina, Raleigh, N. C. (2) National School of Heavy Equipment Operation, P. O. Box 8243, Charlotte, N. C.
- Ohio**—(1) D. J. Guzzetta, Division of Adult Education, University of Akron, Akron 4, Ohio. (2) L. E. Brown, School of Business, Western Reserve University, Cleveland 6, Ohio. (3) R. C. Kendall, University Evening Sessions, University of Toledo, Toledo, Ohio. (4) Emmitt Karrer, College of Engineering, Ohio State University, Columbus 10, Ohio.
- Oklahoma**—M. L. Powers, Short Courses and Conferences, University of Oklahoma, Norman, Okla.
- Oregon**—(for Supervisor Courses) M. P. Cooney, Dept. of Civil Engineering, or (for Maintenance Courses) W. H. Paul, Dept. of Mechanical Engineering, Oregon State College, Corvallis, Ore.
- Pennsylvania**—A. E. Neyhart, Institute of Public Safety, The Pennsylvania State University, University Park, Pa.
- Rhode Island**—G. E. Case, Division of University Extension, Brown University, Providence, R. I.
- South Carolina**—W. H. Ward, Extension Division, University of South Carolina, Columbia, S. C.
- Tennessee**—J. W. Bennett, College of Business Administration, The University of Tennessee, Knoxville, Tenn.
- Texas**—(1) E. M. Bowler, Industrial Education Dept., Division of Extension, University of Texas, Austin 12, Texas. (2) V. L. Engberg, Dept. of Transportation and Foreign Trade, College of Business Administration, University of Houston, Houston 4, Texas. (3) J. M. Claunich, Dallas College, Southern Methodist University, Dallas, Texas.
- Virginia**—J. B. Kinker, Jr., Conferences and Short Courses, Extension Division, University of Virginia, Charlottesville, Va.
- Washington**—F. H. Rhodes, Jr., Civil Engineering Dept., University of Washington, Seattle 5, Wash.
- Wisconsin**—(1) R. A. Ratner, Dept. of Engineering, University Extension Division, University of Wisconsin, Madison 6, Wis. (2) E. H. Hodge, Jr., Dept. of Commerce, University of Wisconsin, Milwaukee, Wis.



"No better tandems than Hendrickson" *... says Les Wilsey, Jr., of Indianhead*

"Maintenance-wise, there isn't any better tandem on the market," says Lester Wilsey, Jr., Operations Manager for Indianhead Truck Line, Inc., of St. Paul, Minn.

Mr. Wilsey is speaking of the Hendrickson Tandems in Indianhead's fleet. This bulk products hauler has experienced *no* particular maintenance cost on any of the Hendrickson Tandems operated up to 300,000 miles.

"They would probably go 400,000 miles without any trouble," says Mr. Wilsey... though the company is overhauling the tandems at this point. "The Hendrickson is the only one we want, and the only one we are going to specify. Our tire wear is extremely good, and the Model RS Tandem with the rubber load cushion will give us an indefinite operat-

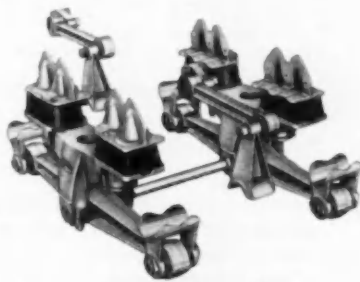
ing life." Indianhead uses Hendrickson Tandems throughout its fleet of 59 tractors and 67 8000-gallon all-aluminum tank trailers.

In 1955 Indianhead hauled all types of bulk commodities over 5,859,606 miles between 7 terminals in its five-state area of North and South Dakota, Minnesota, Iowa and Wisconsin.

Hendrickson Tandems make those miles more trouble-free, more profit-producing for Indianhead... they can do the same for you. They stabilize the load, eliminate brake and starting chatter, assure perfect axle alignment, and end tire scuffing.

For hauling heavier payloads faster, cheaper... under all road and load conditions... equip your rigs with Hendrickson Tandems.

One of Indianhead's RF-190 International tractors and Butler aluminum tankers, both equipped with Hendrickson Model RS Rubber Load Cushion Tandem Suspensions.



HENDRICKSON
Mfg. Co.

HENDRICKSON MFG. COMPANY
 8001 WEST 47th STREET
 LYONS (Chicago Suburb), ILLINOIS



Army Truck Reserve Has Three Commands

THREE ARMY reserve highway transportation divisions were raised to the status of commands by the Dept. of Defense, recently. They are the 435th Motor Transport Command, Washington, D. C., the 425th in Chicago, and the 432nd in Boston, Mass. They will be top command among the many highway transporta-

tion reserve units that could be activated in event of emergency to establish supply lines.

In addition to the three commands, there are 82 such units sponsored by truck fleets or motor carrier associations—21 truck battalions, 13 truck companies, 2 truck companies (heavy), 27 medium truck companies,

1 medium truck company (petroleum), 1 truck company (petroleum), 8 light truck companies, 3 truck groups, 5 heavy lift companies and 1 transport group.

Further details on these reserve units may be obtained from the sponsoring group (as shown in parentheses) or from American Trucking Assns., 1424 Sixteenth St., N.W., Washington 6, D. C.

Alabama—646th Light Truck Company (Alabama Trucking Assn.), 828th Truck Battalion (Alabama Trucking Assn.).

Arizona—210th Heavy Lift Company (Arizona Motor Transport Assn.).

Arkansas—209th Truck Company (Arkansas Bus and Truck Assn.).

California—128th Truck Company (Pacific Motor Trucking), 332nd Truck Battalion (Truck Owners Assn. of California), 413th Truck Battalion (Truck Owners Assn. of California), 730th Light Truck Company (Truck Owners Assn. of California), 676th Medium Truck Company (Truck Owners Assn. of California), 818th Truck Battalion (Truck Owners Assn. of California), 884th Light Truck Company (Truck Owners Assn. of California), 442nd Truck Battalion (Truck Owners Assn. of California), 343rd Truck Battalion (Truck Owners Assn. of California), 729th Light Truck Company (Valley Express), 627th Medium Truck Company (Pacific Freight Lines), 677th Medium Truck Company (Oregon-Nevada-California Fast Freight), 678th Medium Truck Company (Morris Drayage), 736th Medium Truck Company (Belyea Truck Co.), 788th Medium Truck Company (Truck and Warehouse Assn. of San Diego and Imperial Counties), 820th Truck Battalion (Motor Truck Assn. of Southern California), 828th Light Truck Company (Motor Truck Assn. of Southern California), 626th Medium Truck Company (Southern California Freight Lines), 1000th Medium Truck Company (San Joaquin Truckman's Assn.).

Colorado—815th Truck Battalion (Colorado Motor Carriers Assn.).

Connecticut—309th Truck Battalion (Motor Transport Assn. of Connecticut), 158th Truck Company (Motor Transport Assn. of Connecticut), 773rd Truck Company (Petroleum) (Motor Transport Assn. of Connecticut), 618th Truck Company (Heavy) (Motor Transport Assn. of Connecticut).

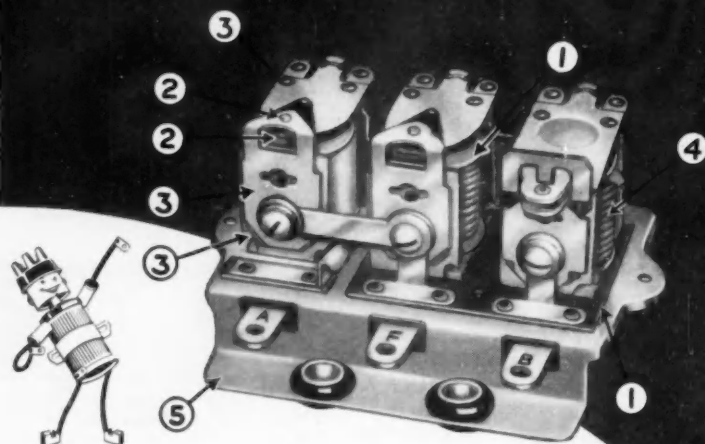
District of Columbia—337th Transport Group (District of Columbia Trucking Assn.), 434th Truck Battalion (District of Columbia Trucking Assn.), 687th Light Truck Company (District of Columbia Trucking Assn.).

Georgia—212th Heavy Lift Company (Motor Vehicle Assn. of Georgia), 766th Medium Truck Company (Motor Vehicle Assn. of Georgia), 357th Truck Battalion (Motor Vehicle Assn. of Georgia).

Kansas—221st Light Truck Company (Graves Truck Lines), 146th Heavy Lift Company (Kansas Motor Carriers Assn.), 326th Truck Company (Kansas Motor Carriers Assn.), 425th Truck Company (Kansas Motor Carriers Assn.), 821st Truck Battalion (Kansas Motor Carriers Assn.), 912th Medium Truck Company (Kansas Motor Carriers Assn.).

Maryland—358th Truck Company (Maryland Motor Truck Assn.), 673rd Medium Truck Company (Maryland Motor Truck Assn.).
(TURN TO PAGE 320, PLEASE)

You Can Check Their Superiority JUST BY LOOKING!



Even a visual inspection of P & D Voltage Regulators is enough to prove their quality—

- (1) Insulation—Top grade phenolic plate
- (2) Contact—Alloy of special metals for maximum stability of operation and longest service
- (3) Temperature compensated, and constructed of finest materials available
- (4) Large size copper magnet wire in windings for long, dependable service
- (5) Factory set and sealed against dust, water and trouble

P & D Regulators are typical of all P & D Products in their Precision and Dependability—the characteristics that have built our reputation, and will build yours.



MANUFACTURING CO., INC.

Established 1920

19-02 Steinway St., Long Island City 5, N.Y.

Export Sales: Borg Warner International, 36 So. Wabash Ave., Chicago 3, Ill.

**188,000 miles
without
retreading
...and still
running!**



SEIBERLING HIGHWAY 110 TIRES

"Seiberling Highway 110 tires were original equipment on this Norwich Mills unit which carries a 25,000-pound payload between Norwich, New York and Clayton, North Carolina—a round trip of 1,300 miles.

"Our driver is justly proud of driving this unit 188,000 miles on a pair of the original equipment tires and feels sure that these tires will be good for 200,000 miles before recapping. It

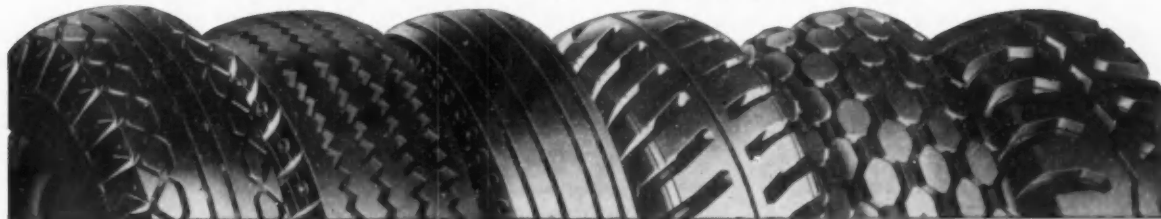
is service like this that makes drivers swear by certain equipment."

Writes: Mr. Charles H. Pflanz, Secretary,
Norwich Mills Inc.
Norwich, New York.

Ask your Seiberling Dealer about the kind of mileage you can expect from Seiberling tires in your operation. You'll find the cost-per-mile the lowest you've ever been quoted.

LET US ENGINEER YOUR TIRE PROBLEMS—IT'S A FREE SEIBERLING SERVICE

WRITE: L. M. SEIBERLING, Vice-President in Charge of Sales, Seiberling Rubber Company, Akron 9, Ohio



Army Reserve Units

Continued from Page 318

1021st Medium Truck Company (Maryland Motor Truck Assn.), 641st Medium Truck Company (Deliveries, Inc.), 649th Medium Truck Company (W. T. Cowan, Inc.).

Massachusetts—338th Truck Group (Massachusetts Motor Truck Assn.), 438th Truck Battalion (Massachusetts Motor Truck Assn.), 642nd Medium Truck Company (Youlden, Smith and Hopkins).

Michigan—367th Truck Battalion (Associ-

ated Truck Lines), 180th Medium Truck Company (Division Avenue Bus Lines).

Montana—395th Light Truck Company (Montana Motor Transport Assn.).

New Mexico—817th Truck Battalion (New Mexico Motor Carriers Assn.), 350th Truck Company (New Mexico Motor Carriers Assn.).

New York—133rd Truck Company (Consolidated Edison Co.), 425th Truck Battalion (Railway Express Agency), 1011th Truck Company (Railway Express Agency), 750th Medium Truck Company (5th Avenue Coach and New York City Omnibus Corp.).

North Carolina—227th Medium Truck Company (North Carolina Motor Carriers Assn.), 228th Medium Truck Company (North Caro-

lina Motor Carriers Assn.), 812th Truck Battalion (North Carolina Motor Carriers Assn.).

Ohio—762nd Medium Truck Company (Ohio Truck Assn.).

Oklahoma—348th Truck Group (Associated Motor Carriers of Oklahoma).

Pennsylvania—629th Medium Truck Company (Pennsylvania Motor Truck Assn.), 436th Truck Battalion (Pennsylvania Motor Truck Assn.), 630th Medium Truck Company (Pennsylvania Motor Truck Assn.), 944th Medium Truck Company (Pennsylvania Motor Truck Assn.).

South Carolina—229th Truck Company (Motor Transportation Assn. of South Carolina).

Tennessee—339th Truck Group (Tennessee Motor Transport Assn.), 637th Truck Company (Heavy) (Tennessee Motor Transport Assn.), 810th Truck Battalion (Tennessee Motor Transport Assn.), 845th Truck Company (Tennessee Motor Transport Assn.), 639th Medium Truck Company (Mason and Dixon Lines).

Texas—369th Truck Company (Texas Motor Transport Assn.), 644th Heavy Lift Company (Texas Motor Transport Assn.).

Utah—443rd Truck Company (Utah Motor Transport Assn.), 697th Medium Truck Company (Utah Motor Transport Assn.).

Vermont—344th Truck Battalion (Vermont Truck and Bus Assn.).

Virginia—370th Heavy Lift Company (Virginia Highway Users Assn.).

Washington—217th Medium Truck Company (Washington Motor Transport Assn.), 732nd Medium Truck Company (Hogland Transfer), 737th Medium Truck Company (Petroleum) (Los Angeles-Seattle Motor Express).

Wisconsin—369th Truck Battalion (Leicht Transfer and Storage).

POWER TAKE-OFFS UNIVERSAL JOINTS

FOR ALL TYPES
OF TRUCK
EQUIPMENT

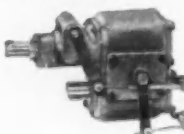
PROMPT SERVICE



Hydraulic Pump PTO's. Models for all applications.



PTO—"P" Series. Single gear, single speed. Spur or helical gear.



PTO—Dual Output Shafts. 1 shaft fwd. and rev. Other shaft single speed. "PT" Series.



PTO for heavy duty operations. 1 fwd. — 1 rev. "S" Series.

POWER TAKE-OFFS . . . light, medium and heavy duty models. In single or multiple speeds, with single and dual shafts. Also a complete line of Hydraulic Pump Power Take-Offs—Motors—Valves—Cylinders.



Universal Joint — end yoke type. Needle bearing, standard length (200 Series.)



Universal Joint — slip type. "P and W" Series.

UNIVERSAL JOINTS . . . four types, light to heavy duty. Regular and slip lengths—also tubular assemblies. Round, square, and hex bores. Constructed for high angular ability—ample bearing capacity.

WRITE US FOR
THE NAME OF
YOUR NEAREST
DISTRIBUTOR



MUNCIE PARTS MFG. CO.
2601 S. JEFFERSON
MUNCIE, INDIANA, U. S. A.

OTHER MUNCIE PRODUCTS: UNIVERSAL HANGER BEARINGS • SHAFTING WITH KEYWAYS

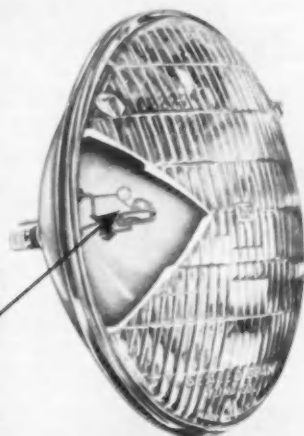
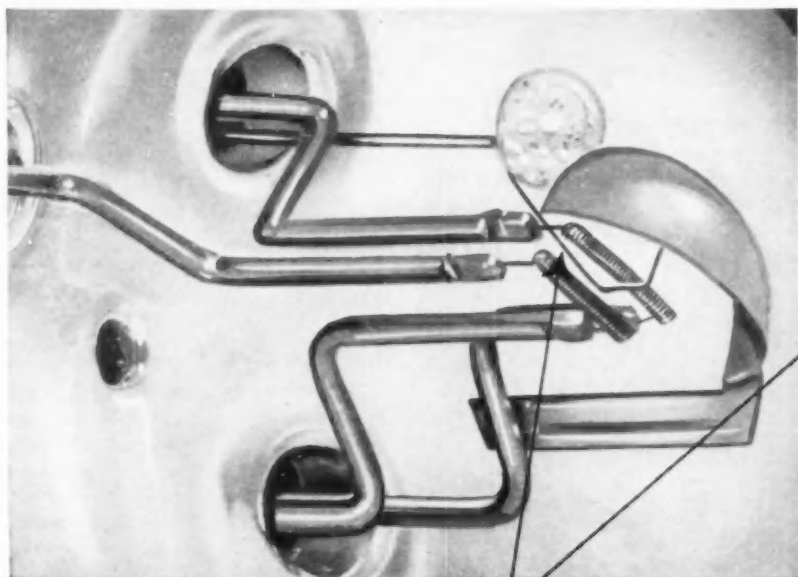
Shipley Steps Up



O. D. "Mike" Shipley takes oath of office as Director of the Bureau of Highway Safety in the Dept. of Revenue of the Commonwealth of Pennsylvania. Commonwealth Secretary Henry Harner administers oath as Governor G. M. Leader (at right of Shipley) and Revenue Secretary G. A. Gleeson (at left of Shipley) look on. As Safety Director for Pennsylvania Motor Truck Assn., he headed a safety program that six times won top award for association safety programs in American Trucking Assns. Annual Truck Safety Contest.

TUNG-SOL VISION-AID HEADLAMP

Ruggedized FOR TRUCK SERVICE



NO. 5440-S RUGGEDIZED
VISION-AID HEADLAMP
WITH E-Z AIM PLATFORMS

New **"Filament Anchor"** protects against premature burnouts

This is the headlamp with the nationwide reputation for standing up under toughest service conditions . . . for reducing headlamp replacement costs . . . and for keeping drivers out of trouble on the road because of faulty lighting.

The "filament anchor" . . . an exclusive Tung-Sol safety feature . . . provides a ruggedness that lengthens lamp life. The "anchor" keeps the top filament from sagging and prevents shorts and premature burnouts. The entire filament structure is designed to absorb shock and vibration. It safeguards the filaments and maintains accurate beam focus under all operating conditions.

Tung-Sol No. 5440-S Vision-Aid Headlamps embody all the newest principles of headlamp engineering. They have the highest candlepower ever built into a production headlamp. Their improved passing beam has the greatest range, focussed for clear illumi-

nation of the vital right lane and road shoulder. And the shielded low beam filament eliminates glare-back in fog, rain and snow.

Other lamps in the complete Tung-Sol truck line have been ruggedized where service conditions indicate the need for extra durability. Standardize on Tung-Sol lamps for safety, economy and dependable service.

TUNG-SOL ELECTRIC INC., Newark 4, N. J.

Sales Offices: Atlanta, Ga., Columbus, Ohio, Culver City, Calif., Dallas, Texas, Denver, Colo., Detroit, Mich., Irvington, N. J., Melrose Park, Ill., Newark, N. J., Philadelphia, Pa., Seattle, Wash., Canada: Montreal, P. Q.

ts TUNG-SOL
NO. 5440-S RUGGEDIZED
VISION-AID HEADLAMPS
WITH E-Z AIM PLATFORMS

Dodge V-8 Engine Specifications

Disp. (cu in.)	314.61	314.61 ¹	331.1	331.1	354.06	354.06 ²	354.06 ³
Bore (in.)	3.63	3.63	3.81	3.81	3.94	3.94	3.94
Stroke (in.)	3.80	3.80	3.63	3.63	3.63	3.63	3.63
Compression Ratio	8.5 to 1	7.8 to 1	7.5 to 1	7.5 to 1	7.25 to 1	7.25 to 1	7.25 to 1
Bhp (max. @ rpm)	204 @ 4400	187 @ 4400	201 @ 3900	212 @ 3900	216 @ 3800	222 @ 3900	232 @ 3900
Gross Torque (max. in lb-ft @ rpm)	290 @ 2400	284 @ 2400	311 @ 2400	333 @ 2400	316 @ 2600	338 @ 2400	355 @ 2500
Carburetion	Single	Single	Single	Twin	Single	Single	Twin
For truck Series Nos.	100, 200, 300, P300, P400	400, 500, 600, C500, W500, S400, S500, S600	700, C700, T700, S700	800, T800	700, C700, T700, S700	800, T800	900, T900

¹—Medium and heavy duty service.

²—Heavy duty service.

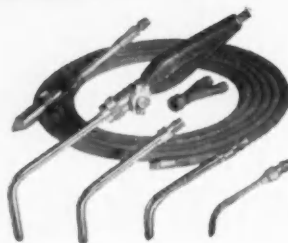
FAST ★ CLEAN ECONOMICAL



Prest-O-Lite

Trade-Mark

BODY SOLDERING OUTFIT



Outfit (illustrated) comes complete with hose, precision handle, "Y" connection, and interchangeable stems ready for use with standard welding cylinder.

With the four different sized stems and soldering iron in this outfit you can handle any job from the heaviest body soldering down to the smallest spot repairs. Use it as an auxiliary to your standard oxy-acetylene welding and cutting outfit. Just attach the "Y" connection to the outlet of your acetylene regulator and operate both outfits from the same cylinder. The precision torch has a convenient shutoff valve and pilot flame control built into it for economical operation. Ask your local LINDE jobber for a demonstration or write for more details to LINDE AIR PRODUCTS COMPANY, a Division of Union Carbide and Carbon Corporation, 30 E. 42nd St., New York 17, N. Y. In Canada: Linde Air Products Company, Division of Union Carbide Canada Limited, Toronto.

GET IT FROM YOUR

LINDE JOBBER

The terms "Prest-O-Lite" and "Linde" are registered trade-marks of Union Carbide and Carbon Corporation.

Dodge for 1957

Continued from Page 64

cost. In addition, 2-speed rear axles, making for a wider selection of axle ratios, are available on conventional models 400 through 900, COE's, and school buses.

Optional Air Brakes

Vacuum type power brakes are standard on 500 models and up, optional in 100 through 400 models. Air brakes are available as optional equipment on all 600 through 900 models. Larger brakes with increased lining area are installed on 200 and 500 models.

Power steering is made available, at extra cost, on every model in the line (except W500 4-wheel drive). An improved 11-in. clutch, formerly an extra equipment item, is now standard on low tonnage models.

Wide Open Hood

The new, wide "alligator" hood with a sturdy two-position top can be opened to 45 deg or a full 90 deg, making the engine compartment more accessible for maintenance and adjustments. A new multiple circuit breaker light switch puts headlights on a separate circuit from other lights and equipment. Should a short occur in any other circuit, the headlights would still stay on.

V-8 Engine Features

Features of the higher horsepower V-8 engines (other than those shown in the chart above), include a tooth chain camshaft drive and non-positive exhaust valve rotators on the 314.61 cu in. model. For medium duty, the 314.61-cu in. model engine has a

(TURN TO PAGE 324, PLEASE)

SLUDGE

on the cartridge means
SLUDGE in the
engine but...



you can stop sludge
before it can form with

DELUXE

full-depth
protected oil filter
CARTRIDGES

The job of a good oil filter cartridge is *not* to trap sludge but to *prevent* sludge from forming at all! Once there's sludge on the cartridge, it's a sure sign of sludge in the engine! **DELUXE CARTRIDGES** in DeLuxe Filters actually cleanse the oil of sludge-causing asphaltenes and other engine contaminants *before* they can ever form into sludge. Long oil travel with the exclusive DeLuxe spring and cone to maintain proper density and rate of oil flow are essential to this kind of sludge preventing oil cleansing.

THE SECRET IS IN THE **DELUXE** SPRING-AND-CONE CONSTRUCTION



THE SPRING is essential to **DENSITY CONTROL**... prevents cartridge collapse, the worst enemy of full-depth filtration. Also prevents filtering medium from wadding and causing channeling of the oil.

THE CONE delivers **UNIFORM OIL FLOW**... assures uniform oil distribution from bottom to top of the cartridge at a uniform rate of flow and permits heavy particles to drop into the sump below.



Only DELUXE FULL-DEPTH PROTECTED cartridges assure
CONTROLLED DENSITY OF FILTERING MEDIUM • L-O-N-G UNIFORM OIL FLOW

1461

DeLuxe Products Corporation, La Porte, Indiana

Dodge for 1957

Continued from Page 322

roller chain camshaft drive, tri-metal connecting rod bearing, hardened exhaust valves, non-positive rotators on the intake valves and positive on the exhaust valves as well as a vibration damper. For heavy duty use, the same engine also uses tri-metal

for the Nos. 1, 2, 3, and 4 main bearings, stellite-faced exhaust valves, exhaust valve seat inserts and a hardened crankshaft.

The 331.1-cu in. engine with single carburetor has roller chain camshaft drive, hardened crankshaft and valves, vibration damper, tri-metal on Nos. 1, 2, and 4 main bearings and on connecting rod bearings, stellite-faced sodium-filled exhaust valves with valve seat inserts, and non-positive

For all-day driving comfort, choose American Seating Driver's Seats

American Seating now brings you the finest in comfort, the utmost in safety and convenience, in its American Driver's Seats. With new durability, new comfort-support, you can cut down on driver fatigue, increase operating efficiency. Unique adjusting devices permit full-range adjustability to suit each driver! Next time you order driver's seats, ask for American Seating. And for further details, call, wire, or write your American Seating man, today.



Driver's Seat, Model 300: Wide, full-depth, foam-rubber cushion is shaped for best leg support. Contoured side wings offer greater safety, help keep driver in seat on turns. Seat is adjustable fore-and-aft to five positions, 4" range. Adjustable vertically to four positions, 3" range. Cushion tilt adjusts to three positions, back pitch to five positions. Available in attractive two-tone color combinations.



Light Delivery Truck Seat, Model O-4418: Full-depth, foam-rubber cushion. Oven-baked enamel finish on all exposed metals. Entire seat hinges at floor, and back pad hinges to fold against cushion. Vertical adjustment, 4" range with five positions. Covered in vinyl-coated fabric upholstery with nylon-stitched seams. Covers perforated for ventilation.

AMERICAN SEATING

GRAND RAPIDS 2, MICHIGAN

Branch Offices and Distributors in Principal Cities. Manufacturers of Transportation, School, Theatre, Auditorium, Church, Stadium Seating, and Folding Chairs.

WORLD'S LEADER IN PUBLIC SEATING

Dodge "K" Series Trucks

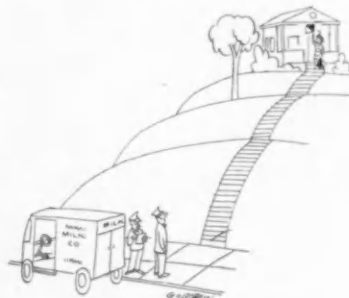
Model	Wheelbase (in)	Max. GVW (lb)	Max. GCW (lb)
Conventional Models			
100	108, 116	5,100	—
200	116	7,500	—
300	128	8,800	—
400	129, 153, 171	15,000	26,000
500	129, 141, 153, 171, 193	18,000	32,000
600	129, 141, 153, 171, 193	21,000	35,000
700	129, 141, 153, 171	23,000	45,000
800	132, 144, 156, 174, 192	25,000	55,000
900	132, 144, 156, 174, 192	30,000	65,000
COE Models			
C500	108, 132, 162	18,000	32,000
C700	108, 120, 132, 162	22,500	45,000
Tandem Models			
T700	141, 153, 171, 189	32,000	45,000
T800	144, 156, 174, 192	36,000	55,000
T900	144, 156, 174, 192	46,000	65,000
Forward Control Models			
P300	116, 126	9,000	—
P400	108, 129	15,000	—
School Bus Models			
S400	153	12,000	—
S500	193	16,000	—
S500	217	18,000	—
S600	236	20,000	—
S700	236, 254	21,000	—
4-Wheel Drive Models			
W300	126	9,500	—
W500	156, 174	18,000	—

intake valve rotators and positive exhaust valve rotators. The same engine with twin carburetion adds a gear camshaft drive, main and connecting rod bearings all tri-metal and stellite-faced valve seat inserts.

The 354.06-cu in. engine with single carburetor has the same features as the 331.1-cu in. engine with single carburetor. For heavy duty use, the 354.06-cu in. engine with single or twin carburetor offers the same features as the 331.1-cu in. engine with twin carburetion except that it has Eaton-ite-faced valve inserts.

END

Please Resume Reading Page 66



"Take this down: N-O-M-I-L-K-T-O-D. . ."



Allied
A.P.C.

two metal

VALVES

**for extra service,
and performance**

Nitrogen-treated Austenitic Stainless Steel makes the ideal valve head because it holds its strength under terrific heat, won't batter out of shape, and resists warpage and corrosion.

Low Nickel-Chromium Steel is the alloy best fitted to take the terrific pounding the valve-tip gets from cam and tappets.

That's why Allied-A.P.C. permanently fuses these two *specialized* steels into one exhaust valve—the greatest value you can offer your customers at *any* price. Available in conventional and rotating types . . . Stellite-Faced . . . Sodium Filled. See your Allied Jobber for these nationally advertised motor parts, all engineered and built to the highest standards of accuracy.



Allied
MOTOR PARTS

ALLIED MOTOR PARTS COMPANY • DETROIT 1, MICHIGAN
Pistons • Cylinder Sleeves • Cylinder Sleeve Assemblies • Piston Pins
Piston Pin Bushings • Piston Pin Set Screws • Piston Pin Lock Rings
Valves • Valve Guides • Valve Keys • Valve Springs • Hardened Valve
Seat Inserts • Expansion Plugs • Water Pumps • Water Pump Parts
and Packing



Chevrolet for 1957

Continued from Page 62

device that gives down-hill speed control without use of brakes. (Feb., page 90—Mar., page 90.)

A second automatic transmission—"Hydramatic"—is offered in two sets of gear ratios for light-duty and smaller medium-duty models. A range of six manual

transmissions make up the other choices, one featuring overdrive as an option on 1½-ton models.

Air Brakes Offered

Full air brakes are offered on many of the heavy-duty models. The air brakes are offered as an option in conjunction with new extra-sturdy cast-spoke truck wheels.

For easier access to low-cab forward models, the bottom step

has been lowered four inches and an assist handle behind the door installed as standard equipment. Stronger springs, axles, and shock absorbers provide even greater durability on many of the models. An optional front axle of 9000 lb capacity is offered for the first time on the tandems.

Safety Features

New safety features applied throughout the line include interlocking crash-tested latches on all side doors and steering wheels with hubs recessed three inches below the rim.

Another safety item, an extra large 4 x 5 in. brake treadle, is offered on the two new medium duty forward control models. These chassis, the largest of their type ever built by the company, place the driver almost directly above the engine to leave maximum space for cargo. The models are available in 130 and 154 in. wheelbases, with GVW ratings from 14,000 to 18,000 lb. Base engine is the 6-cyl 261-cu in. "Job-master" with an 11-in. coil spring clutch.

END

Please Resume Reading Page 64



Before You Buy a Hydraulic 5th Wheel Check These Outstanding Pollard Advantages

- ✓ The Pollard offers a choice of Fruehauf or Holland 36" cast steel 5th wheel.
- ✓ No mutilation of chassis in making the installation.
- ✓ Trailer king-pin remains forward of axle center when elevated.
- ✓ 9¾" mounting height eliminates necessity of slamming under trailer front.

Patented in
U. S. and Canada

Write for Literature
On New Model

C. E. POLLARD CO.

14571 Schaefer Rd.

Detroit 27, Mich.



**5TH WHEEL
HYDRAULIC PLATFORM**



Installation of the most modern equipment, doubling our engineering and other specialized personnel are but some of the factors contributing to our newly increased productivity and efficiency.

Long's experience in quality manufacture includes over a half century of volume production for American industry. The progressive policies of Borg-Warner—of which we are a Division—set new goals in expanding our engineering and production service.

We direct you to the advantages of meeting your cost and delivery requirements through recent developments and new applications of our products. We're eager to tell you about them in detail.

LONG SERVICE CLUTCHES . . . the original equipment line

When you replace a Long-built clutch with a Long-rebuilt clutch, you're installing a genuine Long unit identical to the original equipment.

You can be sure that it will meet torque requirements; that it's engineered for your vehicle. Components, manufacturing skill and inspection are duplicated exactly. All parts are factory designed and built for trouble free performance and long service life.

Check with your distributor on our factory exchange arrangement for Long-built clutches and torque converters.



LONG

®

LONG MANUFACTURING DIVISION, BORG-WARNER CORPORATION

12501 DeQuindre Street, Detroit 12, Michigan

Also: Windsor and Oakville, Ontario

THE STANDARD OF QUALITY AND PERFORMANCE SINCE 1903

November News Roundup

SAE Transport Meeting

Fleetmen at SAE's National Transportation Meeting in New York City last month discussed vehicle design as it affects maintenance, heard about the importance of the engineer in improving fleet operation, surveyed what's available in bus suspensions. More about the meeting coming up next month.

Transport Assn. of America

Last month, the Transportation Assn. of America decided on its 1957

legislative program. Among other things, the group will work for (1) repeal of federal transportation taxes, (2) reduced government competition in transportation, (3) laws to assure parcel post rates based on all costs, (4) elimination of Sec. 22 rates on government traffic, (5) Congressional definition of the exempt status of non-profit shipper groups, (6) defeat of proposals to transfer ICC's judicial functions to regular courts.

Deaths Up and Down

This year's Memorial Day to Labor Day summer traffic safety campaign was not an unqualified success. Total deaths were up 9.4 per cent as compared to 1955. However, on the plus side, Memorial Day fatalities were down 21 per cent, Fourth of July—9 per cent, Labor Day—10.5 per cent. And, despite the national increase, decreases in number of deaths were registered in Nevada, Vermont, Tennessee, Michigan, Colorado, Maine, Delaware, South Dakota, Pennsylvania, Nebraska, Oregon, Virginia, New Mexico, Arkansas and the District of Columbia. Next year's program gets under way next May 30 with the theme "Slow Down—Speed Kills" or, as an option "Slow Down—Keep Your License."

Trucking Safety Committee

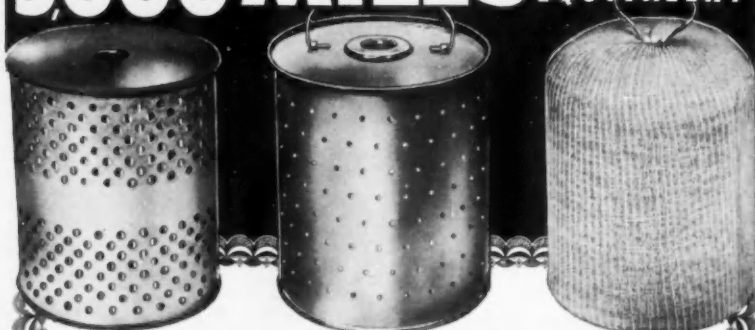
ATA has set up a special committee to study the trucking industry's current safety program, make possible recommendations for future action. First committee meeting was held during the recent ATA convention. Named to serve on the committee were: R. A. Brown, Meadows Transfer, Bettendorf, Iowa, and G. B. Fischbach, Fischbach Trucking, Akron, Ohio, of the Contract Carriers

Have a Look at a Reefer



If you'd like to see the new Thermo-King hydraulic-powered reefer unit in operation, contact your local dealer. This truck with new model in operation is now touring the country to give fleet operators a close-up view.

refilco oil filter cartridges
are **GUARANTEED** for
5000 MILES OR ITS HOURLY EQUIVALENT



REFILCO'S 'PREMIUM-PACK' line of heavy-duty, long-life oil filter replacement cartridges in the 3 popular types...CAN...SOCK...MICRON IN EVERY SIZEFOR ALL TYPES OF ENGINESGAS OR DIESEL

**ARE NOW BACKED BY THE
STRONGEST, FACTORY-BONDED
WRITTEN GUARANTEE EVER PLACED
BEHIND ANY OIL FILTER CARTRIDGE!**

- Your maintenance department can count on FULL pre-determined filter performance and costs for every engine.
- No WASTE FILTER MILEAGE with REFILCO means lower costs.

NEW! REFILCO'S 'THRIFT PACK' line at the lowest rock bottom prices packs the greatest quality value!

DISTRIBUTORS: Choice territories are still available on an exclusive basis... protected by a written franchise.

Fill out coupon and mail today for catalogs and information, and where to buy REFILCO oil filter cartridges.

REFILCO FILTER CO., 541 FIFTEENTH AVENUE, NEWARK 3, N. J.

☐ Have Representative call. ☐ Send more information. ☐ Where can I obtain REFILCO.

Firm _____ By _____

Address _____ City _____ State _____

Palm Trees and Fire Trucks



As you read this, the International Assn. of Fire Chiefs is holding its annual convention in Miami, Fla. (Nov. 12-15). In addition to the palm trees, attending firemen are having a look at this new FWD Special Model No. 750 whose new features include a dual control pump which can be operated electrically or manually.

Conference; E. H. Hunt, Belyea Truck Company, Los Angeles, Cal., and Matthew Mahon, Jr., Mahon's Express, Newark, N. J., of the Local Cartage Conference; Fred Grumme, Aero-Mayflower Transit, Indianapolis, Ind., of the Movers Conference; W. V. Burke, American Thread Co., New York City, and Emil Cohn, Atlantic Refining Co., Philadelphia, Pa., of the Private Carrier Conference; A. C. Scott, Geo. F. Alger Co., Detroit, and Harold Sanford, Clemans Truck Line, South Bend, Ind., of the Regular Common Carriers Conference; Gail Crawford, Ringsby Truck Lines, Denver, Colo., and Micky Krupinsky, Union Freightways, Omaha, Neb., of the Munitions Carriers Conference; Park Davis, M and G Convoy, Buffalo, N. Y., of the Automobile Transporters Conference, and D. H. Gilhausen, Norwalk Truck Lines, Norwalk, Ohio, of the ATA Council of Safety Supervisors.

Beiser, Hoffa Speak

Immediate solution of the twin problems of state reciprocity and third-structure taxes is imperative if the automobile transport industry is to survive, 1000 persons attending the 22nd annual convention of the National Automobile Transporters Assn. at Lansing, Mich., were told. Richard E. Beiser of the Transportation Advisory Bureau, Detroit, told the group that the majority of states he has studied are preparing to levy some type of third-structure tax when state legislatures convene on Jan. 1, 1957.

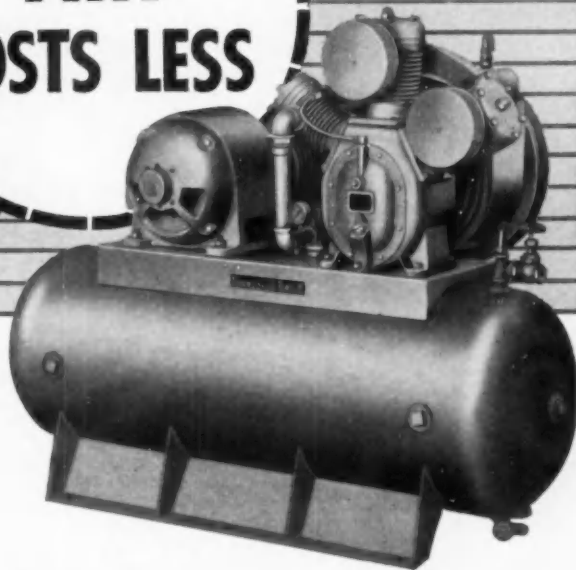
Parke W. Davis, president, Hulbert Forwarding, Buffalo, N. Y., was named NATA board chairman at the

(TURN TO NEXT PAGE, PLEASE)

SERVICE PROFITS

go up

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COSTS LESS



INGERSOLL-RAND AIR COMPRESSORS... with their *Balanced V Construction*... are setting new standards of dependable, low-cost operation in the automotive field!

This means more jobs done and more money that goes right into your shop profits, day after day!

I-R compressors are available to fit all your needs for air-powered tools and equipment... the widest range of models in the field from ½ to 20 H.P.!

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11 Broadway, New York 4, N. Y.

Manufacturers of the famous

TYPE 30 AIR COMPRESSOR

November News Roundup

Continued from Page 329

annual election. Others newly elected were vice-chairman S. T. Crawford, Jr., vice-president, Crawford Transport, Ironton, Ohio, and secretary, R. H. Anderson, vice-president and general manager, Dixie Transport, Jacksonville, Fla. Lloyd Lawson, president, E. & L. Transport, Dearborn, Mich., was re-elected treasurer.

James R. Hoffa, vice-president of the Teamsters Union, Detroit, warned that the union and management must present a united front to state legislatures which take anti-trucking measures under consideration. He urged that the industry's public relations program be strengthened in its battle for legislation desired by the industry and against legislation that might hinder the trucking industry.

Private Carriers

Further comment on the Interstate Commerce Commission's view of private and common carriage was made recently by Commissioner Robert W.

Minor before the Traffic and Transportation Group, National Petroleum Assn. Commissioner Minor said he believes that "a strong common carrier segment of the industry is the best possible answer to the needs of the national commerce and national defense. I recognize, however, that conditions arise which make it desirable or even necessary for a shipper to provide his own transportation. The choice between private and for-hire carriage is, of course, a matter for the discretion of the user; certainly not for the determination of the Commission. The Commission's interest is twofold. First, a sharp trend toward the use of private carriage evidences an inability of common carriers to meet the legitimate demands of shippers. Since the com-

mon carrier is the backbone of the national transportation system, a substantial shift to private carriers is a danger signal that all of us should heed. The experiences with nationalized transport industries abroad are the best argument for a continued strong, privately owned public transportation system. That cost is one difficult to assess, but it is certainly a contingent cost the Commission must weigh in meeting its responsibilities.

"Second, private carriage is, unfortunately, most susceptible to misuse. The Commission is sensitive to for-hire transportation masquerading as private carriage. Our continuing efforts to halt such practices are not aimed at the destruction of legitimate private carriage. On the contrary,

1956 Domestic Truck Factory Sales by GVW

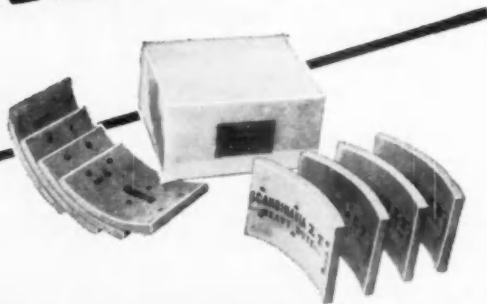
	5,000 lb. and less	5,001-10,000	10,001-14,000	14,001-16,000	16,001-19,500	19,501-26,000	Over 26,000	Total
January.....	38,771	12,976	2,886	15,309	3,289	4,858	5,851	83,782
February.....	37,350	14,123	3,139	14,443	4,326	4,384	6,007	83,752
March.....	36,396	14,973	3,397	14,541	5,528	5,250	6,911	86,896
April.....	32,777	14,758	3,240	14,365	5,251	4,980	7,039	82,400
May.....	28,572	15,919	3,070	12,029	6,720	4,842	7,041	77,593
June.....	29,864	10,910	3,168	13,131	5,613	4,093	6,894	73,463
July.....	23,443	12,279	2,423	12,354	4,669	3,118	4,863	63,149
August.....	29,338	12,371	2,682	12,019	4,355	3,286	4,748	68,809
Total—8 Mos. 1956.....	256,601	108,311	24,015	108,811	38,651	34,371	49,154	619,914
Total—8 Mos. 1955.....	343,334	114,869	27,138	128,435	30,690	28,414	39,459	709,239

Source: Automobile Manufacturers Assn.

**For More Road Time and
Less Down Time**

SCANDINAVIA

**HEAVY DUTY
ZT & MOLDED
BRAKE BLOCKS**



BRAKE
BLOCKS

• **SCANDINAVIA** •

BRAKE
LININGS

DIVISION OF SCANDINAVIA BELTING COMPANY, 744 BROAD ST. (P.O. BOX 464) NEWARK 1, N. J.
WAREHOUSE: 250 CENTRAL AVE., NEWARK 1, N. J. • PLANT: CHARLOTTE 1, N. C.
BRANCHES IN CAMBRIDGE, MASS. AND CLEVELAND, OHIO

the elimination of these abuses will serve to strengthen and protect the true private carrier and foster sound economic conditions in the motor carrier industry."

1956 Truck Trailer Shipments

	August	Eight Months
Vans:		
Insulated and refrigerated.....	466	3,936
Steel.....	92	842
Aluminum.....	374	3,094
Furniture.....	182	1,546
Steel.....	182	1,546
Aluminum.....		
All other closed-top.....	2,146	18,503
Steel.....	963	7,966
Aluminum.....	1,183	10,537
Open-top.....	374	2,574
Steel.....	179	1,100
Aluminum.....	195	1,474
Total—Vans.....	3,160	26,599
Tanks:		
Petroleum.....	509	3,568
All other.....	91	744
Total—Tanks.....	600	4,312
Pole, pipe and logging:		
Single Axle.....	46	434
Tandem Axle.....	61	1,050
Total.....	127	1,484
Platforms:		
Racks, livestock, stake.....	148	643
Grain bodies.....	76	552
Flats, all types.....	612	6,089
Total—Platforms.....	836	7,284
Low-bed heavy haulers.....	254	2,253
Dump trailers.....	156	1,294
All other trailers.....	139	1,899
Total—Complete Trailers.....	5,280	45,085
Chassis.....	350	2,587
Total—Trailers and Chassis.....	5,630	47,672

Source: Industry Division, Bureau of the Census.

AMONG THE STATES

Georgia has advised New York, Ohio, New Mexico, Nevada, Arizona and Colorado that trucks registered in those states must pay a \$10 round trip fee plus a \$10 tag to operate in Georgia.

Massachusetts has increased its fuel tax to 5½¢ per gal effective July 1, 1957.

Missouri has notified Arizona, Colorado, Idaho, Nevada, New York, Oregon, Utah and Wyoming that trucks registered in those states must register in Missouri and display Missouri license plates to operate in Missouri. New policy does not apply to trailers.

New Jersey's recent overweight drive shows 50.3 per cent of violations to be violations of registered weight.

(TURN TO NEXT PAGE, PLEASE)



44 Kinnear Steel Rolling Doors

Speed Service at S & W Fine Foods —



The huge new San Francisco warehouse of S & W Fine Foods, Inc., is a monument to functional efficiency. And here are some of the ways in which 44 Kinnear Rolling Doors* play an important part in this up-to-the-minute operation:

They open *straight upward* . . . coil smoothly out of the way *above the opening* . . . clear the *entire* doorway quickly — from jamb to jamb and from floor to lintel.

They stay *out of reach* of damage by wind or vehicles.

All floor and wall areas around the doorway are *always* fully usable.

Ceiling space around openings remains clear at *all times*. There's never any interference with cranes, hoists, conveyors, lighting, or other overhead equipment. Goods can be stacked "clear to the rafters" inside or outside the opening.

The tough, flexible, all-steel curtain of interlocking slats assures *long*

service, *low* maintenance costs, and *extra* protection against fire, wind, intrusion, and vandalism.

Heavy galvanizing—1.25 ounces of pure zinc per square foot of metal (ASTM Standards)—gives added resistance to weather, wear, and corrosion.

Kinnear Rolling Doors are built any size, for old or new buildings, with motor or manual control. Write for information, or for recommendations on your door needs.

*33 Kinnear Steel Rolling Doors 18'9" wide by 10' high, ten doors 10' wide and 10' high, and one door 6' wide by 7' high.

KINNEAR
ROLLING DOORS

Saving Ways
in Doorways

The KINNEAR Mfg. Co.

FACTORIES:

2100-20 Fields Ave., Columbus, Ohio

1742 Yosemite Ave., San Francisco 24, Calif.

Offices and Agents in All Principal Cities

November News Roundup

Continued from Page 331

Another 20 per cent were single-axle limit violations and 15.8 per cent tandem-axle overweights.

New York mileage tax regulations have been amended to incorporate 1955 and 1956 legislative changes affecting GVW determination, tax computation, emergency permits, GVW limits, revocation of permits, seizure of vehicles. Also the state has developed Form FS-2 to cover proof of financial liability for fleets to eliminate need to submit individual certificate for each vehicle.

Oregon law placing truck rental under public utility regulation has been found unconstitutional by Oregon Third Circuit Court.

Pennsylvania has issued instructions to fleet operators covering records required to meet inspection station requirements covering identification of vehicles, repair records, lube record, maintenance schedule, leasing records.

Virginia now provides for State

Corporation Commission regulation of "automobile clubs" (S60X).

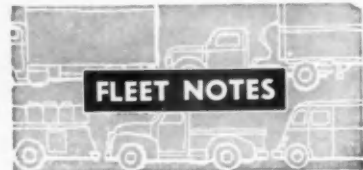


For names of fleets winning awards in the National Safety Council's Annual National Fleet Safety Contest, see page 337, this issue.

Great Lakes Forwarding Corp., Buffalo, N. Y.—to 60 drivers. U. S. Savings Bonds up to \$100 were awarded 27 of the safe truck drivers.

Hayes Freight Lines, Springfield, Ill.—to 397 drivers. Awards were for accident-free records during this year's "Partners in Safety Campaign." Drivers shared in a \$1000 cash award with top driver getting \$300.

Harvard Tate, East Corinth, Me., was named winner in "Safest School Bus Driver" contest sponsored by Oneida Products Division, Henney Motor Co. He gets a \$500 Savings Bond and a 48-passenger Oneida school bus.



United Parcel Service has applied to the ICC for authority to serve northern New Jersey, New York east of the Catskills and as far as Albany and Troy, Massachusetts, Connecticut and Rhode Island from Boston and New York. Service from Boston would also include parts of Vermont, New Hampshire and Maine. Proposed service would specialize in packages averaging less than 10 lb with ship-weight limit of 50 lb.

T.I.M.E., Inc., Lubbock, Texas, has promoted Earl Blackerby to Western Division superintendent of Maintenance.

General Shoe Corp., Nashville, Tenn., has increased its fleet to 100 Trailmobile trailers, all leased from Dixie Drive It Yourself System.

Elected president of the North Carolina Motor Carriers Assn. was A. Earl Clontz, executive vice president of

A TREAD TO SUIT YOUR NEEDS

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HAWKINSON TREADS

Because

- RUN COOLER • LAST LONGER
- GIVE BETTER TRACTION
- BETTER CAR PERFORMANCE

Authorized HAWKINSON TREAD Service
In Principal Cities U. S. A., Canada and Foreign Countries
Minneapolis • PAUL E. HAWKINSON CO. • Minnesota

Fredrickson Motor Express, Charlotte, N. C.

Dallas Transit Co., Dallas, Texas, placed first for transit companies in "Financial World's" annual survey of company annual reports.



Frank Baird-Smith, Refiners Transport & Terminal Corp. president, elected president, Michigan Trucking Assn.

New officials and owners of Avis Rent-a-Car System, Boston, Mass., are Frank Sawyer—chairman of the board, William M. Tetrick—president, F. C. Dumaine, Jr.—treasurer and executive committee chairman, and William B. Snow—finance committee chairman.

Wells Cargo, Reno, Nev., has added 10 Kenworth Model No. 825 trucks to its fleet. Features include Cummins NTO 262-hp turbocharged diesel engines, torsion spring tandem axle drive, aluminum for frames, cabs, running boards, battery boxes and fuel tanks.

(TURN TO NEXT PAGE, PLEASE)

PROTECT YOUR TIRE DOLLARS

BY BRANDING NAME AND NUMERAL IDENTIFICATION



Branded name and numeral identification on your tires is the only positive method of receiving full value for your tire dollar. With the Everhot tire brander and tire mileage record system (furnished without charge to users of the Everhot tire brander) you will know the exact cost per mile, per tire. You will know so much about every tire in your fleet that savings up to 30% of the yearly tire cost can be made. Get information about the Everhot Tire Mileage Record System and Tire Brander today.

FOURTEEN NEW TIRES RECOVERED BEFORE THEY WERE MISSED

A sheriff, eighty miles away from a large fleet operator in Ohio, telephoned the operator telling him that fourteen new tires had been recovered which had the fleet operator's name branded on them. The fleet operator wasn't aware that the tires were missing but their tire brand made identification simple and protected the fleet owner from loss. Are you sure you are getting full use of every tire dollar?

EVERHOT MFG. CO., Maywood, Ill.



Q Why did these fleet owners choose ... MEYERCORD DECAL TRUCK SIGNS?

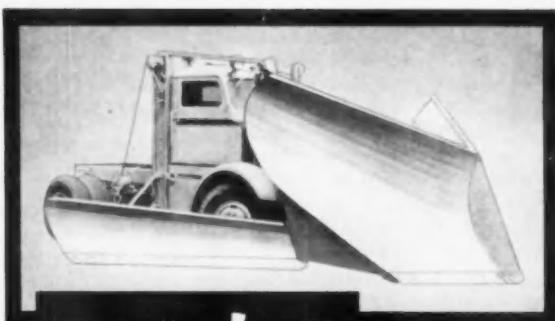
A Regional or national ... from a dozen trucks to hundreds ... fleet operators all over America have chosen Meyercord Decal Truck Signs for a variety of good reasons. Meyercord Decal Truck Signs cost only a fraction of what you've paid for hand painted signs ... yet they are oblivious to the greatest extremes of weather and climatic conditions for normal truck life. Meyercord design and art service is available to create any type of product pictorial or lettering. Installation is made easily and quickly, avoiding unnecessary truck lay-up time. You'll do it better and at less cost with Meyercord Decal Truck Signs.



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select and sell from a complete line of . . .

- "V" FLOWS from 8' to 9½' swath - nose heights 30" to 48"
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- COMBINATION FLOWS hydraulic control in cab converts right hand taper to "V" and to left taper while in motion plus custom designs and sizes

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THE GLEDHILL ROAD MACHINERY CO.
Galion, Ohio

for
**SUPERIOR
LUBRICATION**
use



Industrial Lubricants
Recognized Nationally
for their
Superior Quality

LE #1020 HIGH TEMPERATURE LUBRICANT is built "tough" to give your equipment the full protection it needs. Critical conditions of high temperatures, speed, load, vibration and long continuous operation challenge the basic qualities of any lubricant. LE #1020 is engineered to cope with all of these—it provides superior lubrication under the most adverse conditions—will not melt or sling off under high temperature—resists heavy load "pounding" and vibration—maintains a tough durable film at all times.

LE #505 (SAE 90) and #506 (SAE 140) UNIVERSAL GEAR LUBRICANTS are manufactured from the same high quality paraffin base blending stocks as the finest aviation grade engine oils. Their rich, full-bodied film resists rupturing under severe shock loads—gear cases run cooler—consumption is held to an absolute minimum—and acid corrosion of expensive gears and bearings is virtually eliminated.

IT PAYS TO USE THE BEST!

For additional information on LE lubricants, write, wire or call—

**INDUSTRIAL LUBRICANTS
FOR INDUSTRIAL EQUIPMENT
LUBRICATION
ENGINEERS, INC.**
FORT WORTH, TEXAS

November News Roundup

Continued from Page 333



Black & Decker Mfg. Co., Towson, Md., has opened a new sales and service branch at 1506 Grand Ave., Phoenix, Ariz.

McQuay-Norris Mfg. Co., St. Louis, Mo., has set up a new Piston Ring Sales Division to work directly with large users of piston rings.

Trailmobile, Inc., Cincinnati, Ohio, has just completed a factory branch at 2930 Frenchman St., New Orleans, La.

(TURN TO NEXT PAGE, PLEASE)

Change TUBELESS TRUCK Tires

Faster ...

**KEN
T-45**

Busses
Trucks
Tractors

Easier ...
quality
job-designed
**TIRE
TOOLS**

Used and recommended by leading tire makers. New, improved design for mounting and demounting tubeless truck tires, on new one-piece drop-center rims without damage to sealing features. Simple to use. Length: 38".

Used in Pairs



T-45

SEE YOUR JOBBER!

SAVE LABOR, TIME AND MONEY. INSIST ON KEN TOOLS. Finest Quality and Design. Largest Exclusive Mfrs. of Tire Changing Tools and Equipment.

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AKRON 5, OHIO

WOLF'S HEAD
HEAVY DUTY
MOTOR OIL
100% PURE PENNSYLVANIA

Exceeds
EVERY REQUIREMENT
FOR HEAVY DUTY OIL

**MOTOR TRUCKS
CRANE CARRIERS
CUSTOM BUILT CHASSIS
GENERATOR SETS**

WARNER & SWASEY CO.

DUPLEX

DIVISION
LANSING, MICHIGAN

There are now
120
Water Pumps
in our line

Wohler
LANSING & MICHIGAN

**FRINK
SNO-PLOWS**

Both "V" TYPE and
ONE WAY BLADE TYPE
hand or power hydraulic control
FOR ALL MOTOR TRUCKS
FROM 1½ TO 10 TONS

FRINK SNO-PLOWS, INC., CLAYTON, 1000 Isl., N.Y.

FRINK SNO-PLOWS OF CAN. LTD., TORONTO, ONT.

W. G. B. makes OIL FILTERS

from
**60 to 750 Cu. In.
Capacity**

...and Cartridges for
all makes of Filters.

Write for Details

W. G. B. OIL CLARIFIER, INC.
First By Test Since 1931 KINGSTON, N. Y.



November News Roundup

Continued from Page 334

White Motor Co., Cleveland, Ohio, has moved its new York City regional offices to the 415 Madison Bldg.

Lincoln Electric Co., Cleveland, Ohio, says stellite-faced, rotating valves are now standard on its large, air-cooled, engine-driven welders.

An interesting sidelight on how motor vehicles—automobiles, trucks and buses—are increasing in South and Central America is reported by A. Schrader's Sons, leading tire valve manufacturer. It seems that with so many tire manufacturers in the area, it was necessary to establish a valve factory. Full production will begin at the new plant as soon as distribution procedures are set-up. Schrader Controller R. C. Flood is now visiting tire factories in Panama, Peru, Venezuela, Brazil will finish his trip with a stop at the new Schrader plant in Jacarei, Sao Paulo, Brazil.

Ray M. Smith & Associates, Atlanta, Ga., will cover the states of Tennessee, Alabama, Mississippi, Florida and Georgia for Sparton Automotive Division, Sparks-Withington Co.



Sure, you know what the speedometer reads, but how many HOURS has it run ?

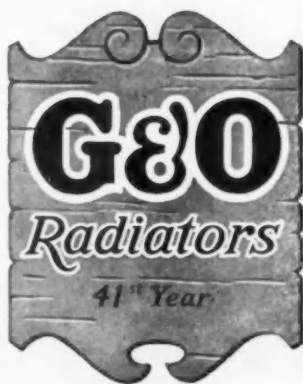


HOBBS Engine Hour METER tells you!

Modern engineers recommend maintenance of powered equipment in terms of HOURS instead of miles. ON-TIME lubrication, filter replacement, oil change, overhaul, etc., means better performance and longer equipment life.

The Hobbs Engine Hour Meter, a true electric timing instrument, records actual running time in HOURS and MINUTES—not a revolution counter. Two models—direct-reading (upper illustration) and pointer type. Approved and recommended by leading equipment manufacturers. Ruggedly built . . . easy to install. For information on how you can put your fleet on a TIMELY maintenance basis, write:

John W. Hobbs Corporation
2075 YALE BLVD. SPRINGFIELD, ILLINOIS
A Division of Stewart-Warner Corporation



They're Good

THE G & O MANUFACTURING CO.
NEW HAVEN CONNECTICUT

SAVE 4 WAYS WITH
KIM
ELECTRIC PRE-HEATER



QUICK, EASY STARTS



ELIMINATES WARM-UP TIME



REDUCES ENGINE WEAR



NO NEED FOR HEATED TERMINALS

**FOR DIESEL
AND GASOLINE
ENGINES**

KIM Hotstart keeps engines warm at night. It is a lightweight pre-heater that is plugged into the electric circuit. KIM draws off cold water from the engine, heats and circulates it through the engine. KIM's use ends cold starts, and cuts winter repair bills. Thousands in use.

SEE YOUR AUTOMOTIVE SUPPLIER OR
WRITE FOR LITERATURE

4 MODELS
EASY TO
INSTALL

KIM HOTSTART MANUFACTURING COMPANY

West 917 Broadway, Spokane 1, Washington

Studebaker for 1957

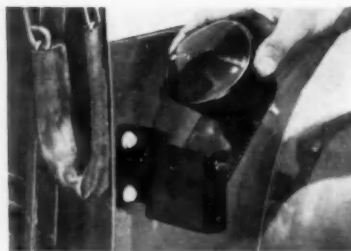
Continued from Page 66

In the light duty line, wheelbases of 112, 122 and 131 in. will be available with GVW ratings from 4800 lb in the $\frac{1}{2}$ -ton model to a new 10,000 lb in the 1-ton model. Pick-up bodies will be $6\frac{1}{2}$ to 9 ft in length and stake and platform types will be 8 to 14 ft. The all-steel, double wall, pick-up body will be retained.

A new 4-speed syncromesh transmission will be standard on the 1-ton, and Studebaker's automatic transmission will be optional on this model for the first time as well as on $\frac{1}{2}$ and $\frac{3}{4}$ -ton.

Medium Duty Models

In the medium duty line of $1\frac{1}{2}$ and 2-ton trucks, six wheelbases will be available ranging up to 195 in. on the 2-ton model. GVW's have been boosted to 16,500 lb on the 155 in. wheelbase model and to 17,000 lb on both the 171 and 195-in. wheelbase models.



Interesting feature on $\frac{1}{2}$, $\frac{3}{4}$ and 1-ton pick-ups are spring-hinged tail lamps

The medium duty line has a new 2-ton chassis and c.b. model. Other models include factory-installed nine through 14-ft stake and platform bodies. The new 195 in. wheelbase is designed to accommodate 16 to 18-ft vans, stakes or special bodies.

Heavy Duty Models

In the new heavier duty line there will be four chassis and cab models. Three of them will be platform-stake types in 9, 12, and 14 ft lengths. Wheelbases of 131, 155, 171 and 195 in. will be used. GVW's are 18,000-19,000 lb. Standard engines will be the 289-cu in.

V-8 used with a 4-speed heavy duty, syncromesh transmission.

Front axles with a carrying capacity of 5000 lb and rear axles with a carrying capacity of 15,000 lb will be used with these new units. A 6.8:1 rear axle ratio will be standard with a 6.2:1 ratio optional at no extra cost for higher road speeds. Two-speed rear axle with electric shift will also be available. The new trucks will have three-stage rear springs.

Other '57 Features

Chassis advances in the "Transtar" line include shorter frames with a 102-in. bumper-to-back-of-cab dimension.

The non-slip safety differential announced earlier this year (Mar., page 102), will be optional equipment on the $\frac{1}{2}$ -ton models. The differential divides power between the rear wheels so that up to 80 per cent of engine force goes to the wheel with the best traction under icy, slippery, or off-highway truck operating conditions.

END

Please Resume Reading Page 69

Cost Less Because They Wear Longer!

AKRO Truck & Trailer Flaps

- Built like the toughest tires. Super-tough rubber completely cord-impregnated!
- Conform to all state codes. Approved by state highway patrols.
- Complete size range: 24" x 30" to 24" x 40".

Automotive Service & Know-How Since 1929
THE BUXBAUM COMPANY
 CANTON 1, OHIO

SAVE TIME • MONEY

Install POWER TAKE-OFF DRIVE LINES
 WITH **MUNCIE** "UNI-HANG" BEARINGS

Sturdy construction — bronze bushings or cast iron bearings in all popular bore sizes. Completely adjustable brackets. Cadmium plated parts.

SHAFTING WITH KEYWAYS

Saves time — cut to length and install. Keys fitted— $\frac{3}{4}$ to $1\frac{1}{4}$ round—square and hex.

WRITE US FOR THE NAME OF YOUR NEAREST DISTRIBUTOR

MUNCIE PARTS MFG. CO.
 2601 S. JEFFERSON MUNCIE, INDIANA

RADIATOR REPAIRMEN!

For easier, faster, more efficient service use —

AND for your PROTECTION recommend GUARANTEED —

LAKE
 RADIATOR SHOP
 TOOLS & SUPPLIES

Write for free Supply Catalog

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LAKE AUTO RADIATOR

5200 W. 130th St., Cleveland 30, Ohio
 Branch — 2115 E. 25th St., Los Angeles 58, Calif.

Fleets Win Safety Council Contest

AS ANNOUNCED at the National Safety Congress in October, here are the top award winners in National Safety Council's annual National Fleet Safety Contest for the year 1955-1956:

COMMON CARRIER TRUCK DIVISION

Intercity Groups

Group I, Denver Trucking, Denver, Colo. Group II, The Davidson Transfer & Storage, Baltimore, Md. Group III, Pacific Motor Trucking, San Francisco, Cal. Group IV, Kedney Warehouse Co., Grand Forks, N. D.

City Groups

Group I, Cushman Motor Delivery, Chicago, Ill. Group II, Denver Chicago Trucking, Denver, Colo. Group III, Olson Transportation, Chicago, Ill.

Suburban Group

Pacific Intermountain Express, Oakland, Cal.

PRIVATE CARRIER TRUCK DIVISION

Intercity Groups

Group I, Radio Corporation of America, Camden, N. J. Group II, Kaiser Aluminum & Chemical Corp., Permanente, Cal.

City Group

Oldbury Electro-Chemical Co., Niagara Falls, N. Y.

Suburban Group

Kaiser Aluminum & Chemical Corp., Permanente, Cal.

CONTRACT CARRIER TRUCK DIVISION

Group I, United Parcel Service of Pa., Philadelphia, Pa. Group II, United Parcel Service of Pa., Philadelphia, Pa.

PETROLEUM DIVISION

Intercity Truck Marketing Group

Dan Dugan Oil Transport, Sioux Falls, S. D.

City Truck Marketing Group

Ashland Oil & Refining Co., Ashland, Ky.

Refining Truck Group

Cities Service Refining Corp., Lake Charles, La.

Production Truck Group

Gulf Oil Corp., Fort Worth, Tex.

Pipeline Truck Group

Shell Oil Co., Indianapolis, Ind.

GOVERNMENT TRUCK DIVISION

The Union County Park Commission, Elizabeth, N. J.

PUBLIC UTILITY TRUCK DIVISION

Intercity Group

Southwestern Public Service Co., Plainview, Tex.

City Group

Community Public Service Co., Fort Worth, Tex.

Suburban Group

Runestone Electric Assn., Alexandria, Minn.

BAKERY TRUCK DIVISION

City Group

Strochmann Brothers Co., Olean, N. Y.

Suburban Group

Wagner Baking Corp., Newark, N. J.

MEAT PACKING TRUCK DIVISION

Oscar Mayer & Co., Madison, Wis.

SMALL FLEETS DIVISION

Commercial Intercity Group

West Texas Auto Co., Kerrville, Tex.

Commercial City Group

Canteen Service of Northern Wisconsin, Wausau, Wis.

Passenger Car Group

The Western Colorado Power Co., Salt Lake City, Utah.

AUTOMOBILE TRANSPORTERS DIVISION (Co-sponsored by the National Automobile Transporters Assn.)

Truckaway Groups

Group I, M & G Convoy, Buffalo, N. Y. Group II, Carolina Car Carrier, Concord, N. C.

Driveaway Group

United Transports, Oklahoma City, Okla.

BREWING INDUSTRY DIVISION (Co-sponsored by the United States Brewers Foundation)

Brewing Truck Group

Theo. Hamm Brewing Co., St. Paul, Minn.

Small Fleet Group

Bohemian Breweries, Inc., Boise, Idaho.

GAS INDUSTRY DIVISION (Co-sponsored by the American Gas Assn.)

Gas Utility—Very Large Group

The Columbia Gas System, Inc., Pittsburgh Group, Pittsburgh, Pa.

Gas Utility—Large Group

Pioneer Natural Gas Co., Amarillo, Tex.

Gas Utility—Medium Group

Wisconsin Power & Light Co., Madison, Wis.

Gas Utility—Small Group

Concord Natural Gas Corp., Concord, N. H.

Gas Transmission System Group

Alabama-Tennessee Natural Gas Co., Florence, Ala.

MILK AND ICE CREAM INDUSTRY DIVISION (Co-sponsored by the Milk Industry Foundation)

Retail Truck

Class A Group, Cloverland Dairy Products Div., Southern Dairies, Charlotte, S. C. Class B Group, Southern Dairies, Asheville, N. C.

Wholesale Truck Groups

Group I, Idaho Creameries Div. of Benrice Foods, Boise, Idaho. Group II, Southern Dairies, Birmingham, Ala. Group III, Southern Dairies, Winston-Salem, N. C.

Over the Road Truck Group

Dairymen's Assn., Honolulu, Hawaii.

Small Fleet Group

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1956 New Truck Registrations by Makes by States

STATE AND MONTH	Brockway	Chevrolet	Diamond T	Dodge	Ford	G.M.C.	International	Mack	Ree	Studebaker	White	Willlys Jeep	Willlys Truck	All Others	Total
Alabama	Aug. 569	1	81	488	166	135	23	8	11	4	6	9	1,495		
Aug. Mos. 4,382	14	594	1	81	3,322	1,521	1,041	136	11	54	131	43	49	11,347	
Arizona	Aug. 236	5	36	173	81	52	3	3	11	14	9	17	19	664	
Aug. Mos. 1,685	11	335	1,248	587	404	27	9	79	44	54	118	88	4,882		
Arkansas	Aug. 83	9	629	225	218	18	22	21	9	6	3	1,925			
Aug. Mos. 4,444	31	492	3,528	1,163	1,298	42	1	150	63	46	35	7	11,302		
California	Aug. 2,791	20	617	2,698	731	642	38	27	94	59	99	112	299	8,227	
Aug. Mos. 22,761	250	4,407	19,707	5,880	4,586	280	207	682	579	716	1,034	1,679	62,948		
Colorado	Aug. 347	2	54	270	83	100	20	2	12	7	39	61	6	1,003	
Aug. Mos. 2,905	33	491	2,134	702	915	73	16	84	67	223	313	89	7,945		
Connecticut	Aug. 241	7	53	205	61	153	16	5	7	63	11	14	10	847	
Aug. Mos. 13	1,615	77	473	1,482	981	975	218	52	83	234	99	141	173	6,426	
Delaware	Aug. 94	2	19	78	17	32	5	3	9	5	3	3	3	270	
Aug. Mos. 1	592	9	137	456	223	263	80	16	39	31	18	16	16	1,901	
District of Columbia	Aug. 54	2	24	58	26	25	6	1	1	6	5	6	12	213	
Aug. Mos. 502	2	131	494	191	265	32	17	6	65	37	44	13	2,441		
Florida	Aug. 1	15	120	730	216	267	60	18	26	13	33	81	13	1,792	
Aug. Mos. 1	5,695	59	931	5,793	1,635	1,655	401	118	182	358	230	413	242	17,820	
Georgia	Aug. 617	7	124	877	234	232	30	1	11	21	17	35	10	2,516	
Aug. Mos. 2	6,087	36	1,009	6,008	1,917	1,799	238	21	175	282	101	110	34	16,399	
Idaho	Aug. 172	4	57	152	57	83	4	1	18	3	10	15	6	578	
Aug. Mos. 1,285	27	335	1,030	470	592	27	1	112	34	80	194	30	4,194		
Illinois	Aug. 976	27	219	880	217	436	27	6	27	37	11	26	24	3,013	
Aug. Mos. 8,296	319	1,500	7,600	2,304	4,203	284	57	280	444	184	160	338	25	26,000	
Indiana	Aug. 13	13	130	432	130	42	4	42	59	9	21	67	2	2,463	
Aug. Mos. 5,628	131	1,094	5,014	1,554	3,130	228	76	414	558	72	115	170	18,493		
Iowa	Aug. 369	9	61	332	70	210	12	2	6	4	1	3	14	1,092	
Aug. Mos. 3,156	79	470	2,978	584	1,866	24	12	99	73	20	30	150	9,541		
Kansas	Aug. 362	3	44	422	69	188	2	5	14	7	1	7	4	1,108	
Aug. Mos. 3,443	20	424	3,170	826	1,367	16	29	109	83	29	98	41	1,955		
Kentucky	Aug. 387	4	68	314	142	159	2	6	16	20	16	16	16	1,241	
Aug. Mos. 3,682	28	931	2,675	1,064	1,617	67	17	94	98	111	123	36	10,070		
Louisiana	Aug. 652	2	110	458	159	163	22	2	9	6	14	9	2	1,808	
Aug. Mos. 5,579	45	613	4,661	1,302	1,237	118	21	113	102	90	90	27	13,998		
Maine	Aug. 177	1	49	179	62	120	6	3	9	3	12	19	7	645	
Aug. Mos. 1,162	4	316	1,116	447	599	52	3	66	43	80	151	83	4,129		
Maryland	Aug. 279	10	80	274	69	114	35	3	10	11	5	15	8	803	
Aug. Mos. 11	2,367	10	730	2,357	689	971	225	57	77	139	42	71	602	7,602	
Massachusetts	Aug. 375	13	489	177	63	214	62	4	41	21	40	36	1,627		
Aug. Mos. 4	2,828	96	1,094	3,516	1,168	1,612	417	70	93	407	129	246	278	12,021	
Michigan	Aug. 733	12	222	781	217	199	20	11	7	22	24	31	22	2,301	
Aug. Mos. 7,778	153	2,082	7,625	2,207	1,789	210	115	178	361	190	237	297	23,222		
Minnesota	Aug. 369	8	58	368	119	219	16	1	16	8	17	36	1,243		
Aug. Mos. 3,763	60	656	3,930	1,024	1,865	91	42	169	67	64	143	144	12,018		
Mississippi	Aug. 536	28	90	357	154	162	4	120	3	6	5	4	1,538		
Aug. Mos. 4,264	443	3,455	1,066	1,207	43	12	2	17	47	8	15	7	10,733		
Missouri	Aug. 693	3	97	554	176	246	12	2	17	47	8	15	7	1,877	
Aug. Mos. 6,274	45	840	4,762	1,638	2,143	64	34	151	353	66	58	95	16,521		
Montana	Aug. 197	1	44	192	59	114	6	3	13	6	13	24	4	675	
Aug. Mos. 1,380	1	293	1,300	493	901	43	14	84	35	112	241	62	4,959		
Nebraska	Aug. 206	6	31	170	52	140	3	1	6	9	4	3	9	642	
Aug. Mos. 1,633	59	266	1,637	493	1,090	6	21	67	103	49	56	51	5,740		
Nevada	Aug. 61	11	45	14	14	5	6	21	7	10	4	10	9	160	
Aug. Mos. 628	12	232	446	350	167	23	17	79	1	39	109	51	2,185		
New Hampshire	Aug. 72	2	39	64	23	59	15	4	1	2	11	21	4	315	
Aug. Mos. 1	716	2	223	640	270	382	129	19	45	50	87	155	51	2,770	
New Jersey	Aug. 18	16	223	691	215	214	56	3	11	65	10	32	23	2,058	
Aug. Mos. 132	4,335	132	1,452	4,270	1,516	1,854	476	47	110	442	106	196	281	15,352	
New Mexico	Aug. 253	27	166	97	51	6	2	7	5	7	5	10	636		
Aug. Mos. 2,105	247	1,376	670	432	82	6	2	48	45	73	119	36	5,250		
New York	Aug. 17	18	1,300	362	721	147	55	28	90	44	103	77	4,466		
Aug. Mos. 336	8,668	139	3,048	8,944	3,161	4,738	1,157	299	225	988	400	683	645	33,431	
North Carolina	Aug. 968	24	90	527	147	190	45	3	22	20	10	10	6	2,062	
Aug. Mos. 5,654	134	880	4,867	1,405	1,568	378	20	215	282	96	16	46	16,601		
North Dakota	Aug. 159	28	209	39	121	1	3	3	3	3	3	3	1	561	
Aug. Mos. 996	209	963	254	808	8	5	37	3	3	3	3	3	7	3,357	
Ohio	Aug. 963	215	81	215	15	59	6	61	20	46	29	3,007			
Aug. Mos. 1	8,428	122	2,045	6,544	2,171	3,900	437	144	239	741	200	344	300	27,616	
Oklahoma	Aug. 580	2	48	526	112	163	4	2	13	15	4	7	10	1,486	
Aug. Mos. 4,526	11	420	3,541	995	1,328	84	31	93	138	31	37	60	11,295		
Oregon	Aug. 448	3	101	399	220	237	11	8	55	45	41	59	63	1,690	
Aug. Mos. 3,241	71	686	2,705	1,287	1,450	146	27	282	338	155	405	373	11,126		
Pennsylvania	Aug. 5	23	290	1,069	277	540	99	18	46	91	45	71	3,793		
Aug. Mos. 93	8,472	180	2,610	6,293	2,683	4,344	934	121	348	972	321	295	30,423		
Rhode Island	Aug. 68	12	34	65	20	30	6	1	2	5	4	7	234		
Aug. Mos. 492	20	182	526	178	273	62	12	18	31	19	36	41	1,890		
South Carolina	Aug. 497	54	386	70	54	6	1	9	10	3	3	2	1,095		
Aug. Mos. 2,924	8	413	2,466	617	613	152	4	67	90	28	24	18	7,424		
South Dakota	Aug. 97	1	14	61	37	79	1	1	2	7	5	13	317		
Aug. Mos. 952	13	163	899	300	807	1	11	39	6	62	71	51	3,366		
Tennessee	Aug. 519	3	119	446	173	142	47	22	77	21	11	7	1,502		
Aug. Mos. 4,468	30	823	3,506	1,276	1,291	183	62	77	113	66	88	18	11,741		
Texas	Aug. 3,289	33	273	2,535	516	801	124	2	53	141	44	35	36	7,882	
Aug. Mos. 18,951	193	1,719	14,514	3,509	4,876	407	51	350	932	217	239	156	47,204		
Utah	Aug. 144	1	32	124	34	53	2	3	6	2	8	9	8	428	
Aug. Mos. 1,089	15	288	838	392	421	36	17	48	42	45	96	82	3,421		
Vermont	Aug. 54	13	85	26	38	2	1	6	19	6	19	6	217		
Aug. Mos. 18	556	1	112	562	124	188	52	5	15	22	16	21	7	1,679	
Virginia	Aug. 4,296	10	911	4,047	1,108	1,325	384	71	160	230	127	166	48	12,895	
Washington	Aug. 460	7	129	352	181	170	21	5	20	10	17	24	35	1,431	
Aug. Mos. 2,842	35	901	2,696	1,469	1,229	132	36	113	82	108	272	251	10,188		
West Virginia	Aug. 246	1	63	270	63	104	3	4	7	13	28	41	1	864	
Aug. Mos. 1,896	2	488	1,950	690	674	43	20	87	99	203	248	37	6,437		
Wisconsin	Aug. 476	7	127	451	124	257	21	4	16	11	19	14	1,529		
Aug. Mos. 3,408	42	781	3,409	1,015	2,082	147	35	111	117	59	133	121	11,461		
Wyoming	Aug. 124	15	94	48	56	1	1	1	1	1	1	1	359		
Aug. Mos. 851	5	145	74	302	381	12	28	19	66	114	12	2,682			
Total August, 1956	50	26,451	330	5,182	24,690	7,021	9,727	1,222	237	778	1,133	786	1,174	1,070	79,831
Total August, 1955	53	31,650	314	6,095	29,461	8,820	9,254	1,061	276	908	1,140	856	1,306	755	82,079
Total 8 Months, 1956	663	205,448	2,762	39,704	182,737	57,591	74,262	8,965	2,026	6,554	10,610	8,554	8,858	7,522	613,242
Total 8 Months, 1955	690	201,166	2,350	44,718	194,230	50,049	69,752	6,884	1,884	7,716	8,9				

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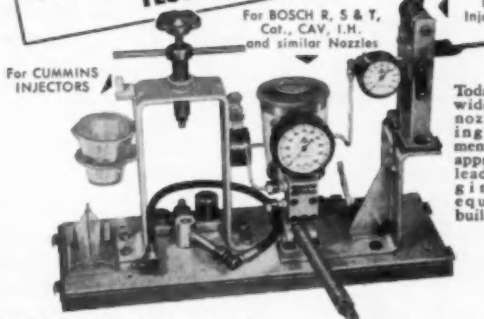
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